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JVC

S40895-03

JVC

GR-DV2000U

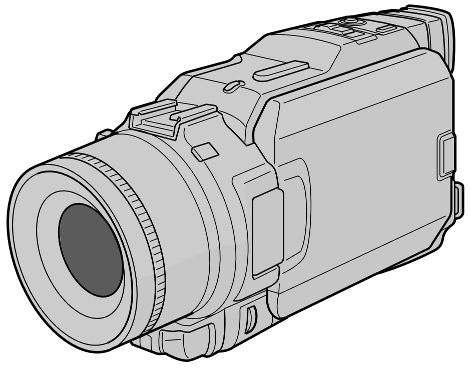
No. 86600

JVC

# SERVICE MANUAL

## DIGITAL VIDEO CAMERA

# GR-DV2000U



Mini DV NTSC

DSC DIGITAL STILL CAMERA

## SPECIFICATIONS

### Camcorder

**For General**

| | |
|---|---|
| Power supply | : DC 6.3 V ⎓ (Using AC Power Adapter/Charger)<br>DC 7.2 V ⎓ (Using battery pack) |
| Power consumption | |
| LCD monitor off, viewfinder on | : Approx. 4.4 W |
| LCD monitor on, viewfinder off | : Approx. 5.3 W |
| Dimensions (W x H x D) | : 74 mm x 90 mm x 178 mm (2-15/16" x 3-9/16" x 7-1/16")<br>(with the LCD monitor closed and the viewfinder pushed back in, without the lens hood) |
| Weight | : Approx. 660 g (1.4 lbs)<br>(without cassette, memory card and battery)<br>Approx. 740 g (1.7 lbs)<br>(incl. cassette, memory card and battery) |
| Operating temperature | : 0°C to 40°C (32°F to 104°F) |
| Operating humidity | : 35% to 80% |
| Storage temperature | : –20°C to 50°C (–4°F to 122°F) |
| Pickup | : 1/4" CCD (Progressive Scan) |
| Lens | : F 1.8, f = 3.8 mm to 38 mm, 10:1 power zoom lens |
| Filter diameter | : ø52 mm |
| LCD monitor | : 3.5" diagonally measured, LCD panel/TFT active matrix system |
| Viewfinder | : Electronic viewfinder with 0.44" color LCD |
| Speaker | : Monaural |

**For Digital Video Camera**

| | |
|---|---|
| Format | : DV format (SD mode) |
| Signal format | : NTSC standard |
| Recording/Playback format | : Video: Digital component recording<br>: Audio: PCM digital recording, 32 kHz 4-channel (12-bit), 48 kHz 2-channel (16-bit) |
| Cassette | : Mini DV cassette |
| Tape speed | : SP: 18.8 mm/s<br>LP: 12.5 mm/s |
| Maximum recording time (using 80 min. cassette) | : SP: 80 min.<br>LP: 120 min. |

**For Digital Still Camera**

| | |
|---|---|
| Storage media | : SD Memory Card/MultiMediaCard |
| Compression system | : JPEG (compatible) |
| File size | : 3 modes (UXGA: 1600 x 1200 pixels/XGA: 1024 x 768 pixels/VGA: 640 x 480 pixels) |
| Picture quality | : 2 modes (FINE/STANDARD) |
| Approximate number of storable images | |
| (with the provided MultiMediaCard [16 MB]) | |
| FINE | : 100 (VGA), 48 (XGA), 20 (UXGA) |
| STANDARD | : 300 (VGA), 144 (XGA), 60 (UXGA) |
| (with an optional MultiMediaCard [8 MB]) | |
| FINE | : 50 (VGA), 24 (XGA), 10 (UXGA) |
| STANDARD | : 150 (VGA), 72 (XGA), 30 (UXGA) |

**For Connectors**

| | |
|---|---|
| AV | |
| Video output | : 1 V (p-p), 75 Ω, analog |
| Video input | : 0.5 V (p-p) – 2.0 V (p-p), 75 Ω, analog |
| Audio output | : 308 mV (rms), 1 kΩ, analog, stereo |
| Audio input | : 308 mV (rms), 50 kΩ, analog, stereo |
| DV | |
| Input/output | : 4-pin, IEEE 1394 compliant |
| PHONE | |
| Headphone output | : ø3.5 mm, stereo |
| MIC | |
| External microphone input | : 459 µV (rms), high impedance unbalanced, ø3.5 mm (stereo) |
| PRINTER | : For an optional video printer equipped with a PRINT DATA connector |

### AC power adapter/charger AA-V40U

| | |
|---|---|
| Power requirement | |
| U.S.A. and Canada | : AC 120 V∿, 60 Hz |
| Other countries | : AC 110 V to 240 V∿, 50 Hz/60 Hz |
| Power consumption | : 23 W |
| Output | |
| Charge | : DC 7.2 ⎓, 1.2 A |
| VTR | : DC 6.3 ⎓, 1.8 A |
| Dimensions (W x H x D) | : 68 mm x 38 mm x 110 mm (2-11/16" x 1-1/2" x 4-3/8") |
| Weight | : Approx. 250 g (0.56 lbs) |

### Jack Box CU-V504U

| | |
|---|---|
| For General | |
| Dimensions (W x H x D) | : 37.5 mm x 18.5 mm x 55 mm (1-1/2" x 3/4" x 2-3/16") |
| Weight | : Approx. 30 g (0.67 lbs) |
| For Connectors | |
| USB | : TYPE B |
| S-VIDEO | : Y: 1 V (p-p), 75 Ω, analog output<br>C: 0.29 V (p-p), 75 Ω, analog output |
| EDIT | : ø3.5 mm, 2-pole |

**Specifications shown are for SP mode unless otherwise indicated. E & O.E. Design and specifications subject to change without notice.**

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# Important Safety Precautions

Prior to shipment from the factory, JVC products are strictly inspected to conform with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

## ● Precautions during Servicing

1. Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product. When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.

2. Parts identified by the ⚠ symbol and shaded ( ░ ) parts are critical for safety.
   Replace only with specified part numbers.
   **Note: Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.**

3. Fuse replacement caution notice.
   Caution for continued protection against fire hazard.
   Replace only with same type and rated fuse(s) as specified.

4. Use specified internal wiring. Note especially:
   1) Wires covered with PVC tubing
   2) Double insulated wires
   3) High voltage leads

5. Use specified insulating materials for hazardous live parts. Note especially:
   1) Insulation Tape
   2) PVC tubing
   3) Spacers
   4) Insulation sheets for transistors
   5) Barrier

6. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.) wrap ends of wires securely about the terminals before soldering.

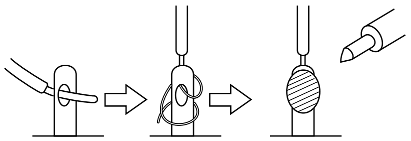


Fig.1

7. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)

8. Check that replaced wires do not contact sharp edged or pointed parts.

9. When a power cord has been replaced, check that 10-15 kg of force in any direction will not loosen it.

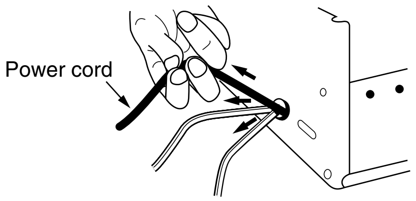


Fig.2

10. Also check areas surrounding repaired locations.

11. Products using cathode ray tubes (CRTs)
    In regard to such products, the cathode ray tubes themselves, the high voltage circuits, and related circuits are specified for compliance with recognized codes pertaining to X-ray emission.
    Consequently, when servicing these products, replace the cathode ray tubes and other parts with only the specified parts. Under no circumstances attempt to modify these circuits.
    Unauthorized modification can increase the high voltage value and cause X-ray emission from the cathode ray tube.

12. Crimp type wire connector
    In such cases as when replacing the power transformer in sets where the connections between the power cord and power transformer primary lead wires are performed using crimp type connectors, if replacing the connectors is unavoidable, in order to prevent safety hazards, perform carefully and precisely according to the following steps.

    **1) Connector part number :** E03830-001
    **2) Required tool :** Connector crimping tool of the proper type which will not damage insulated parts.
    **3) Replacement procedure**
    (1) Remove the old connector by cutting the wires at a point close to the connector.
    Important : Do not reuse a connector (discard it).

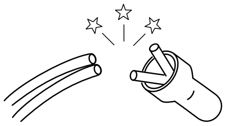


Fig.3

(2) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.

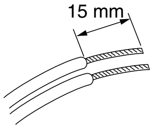


Fig.4

(3) Align the lengths of the wires to be connected. Insert the wires fully into the connector.

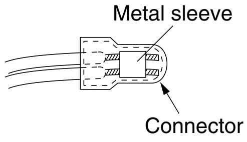


Fig.5

(4) As shown in Fig.6, use the crimping tool to crimp the metal sleeve at the center position. Be sure to crimp fully to the complete closure of the tool.

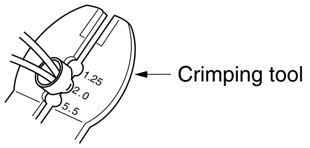


Fig.6

(5) Check the four points noted in Fig.7.

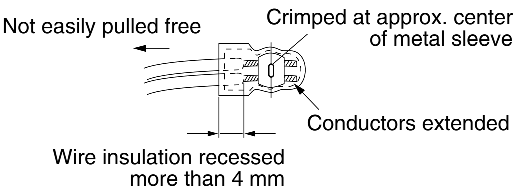

Not easily pulled free
Crimped at approx. center of metal sleeve
Conductors extended
Wire insulation recessed more than 4 mm

Fig.7

# ● Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions, Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

1. **Insulation resistance test**
Confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

2. **Dielectric strength test**
Confirm specified dielectric strength or greater between power cord plug prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

3. **Clearance distance**
When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See table 1 below.

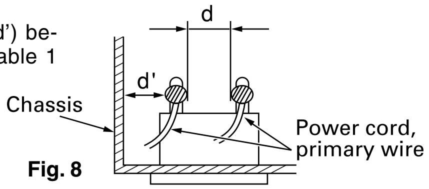


**Fig. 8**

4. **Leakage current test**
Confirm specified or lower leakage current between earth ground/power cord plug prongs and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).
**Measuring Method :** (Power ON)
Insert load Z between earth ground/power cord plug prongs and externally exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See figure 9 and following table 2.

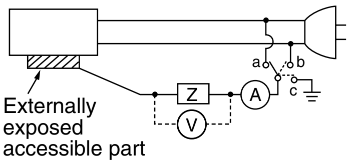


**Fig. 9**

5. **Grounding (Class 1 model only)**
Confirm specified or lower grounding impedance between earth pin in AC inlet and externally exposed accessible parts (Video in, Video out, Audio in, Audio out or Fixing screw etc.).
**Measuring Method:**
Connect milli ohm meter between earth pin in AC inlet and exposed accessible parts. See figure 10 and grounding specifications.

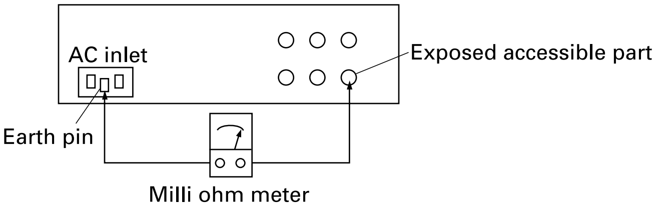


**Fig. 10**

**Grounding Specifications**

| Region | Grounding Impedance (Z) |
|---|---|
| USA & Canada | Z ≦ 0.1 ohm |
| Europe & Australia | Z ≦ 0.5 ohm |

| AC Line Voltage | Region | Insulation Resistance (R) | Dielectric Strength | Clearance Distance (d), (d') |
|---|---|---|---|---|
| 100 V | Japan | R ≧ 1 MΩ/500 V DC | AC 1 kV 1 minute | d, d' ≧ 3 mm |
| 100 to 240 V | | | AC 1.5 kV 1 miute | d, d' ≧ 4 mm |
| 110 to 130 V | USA & Canada | 1 MΩ ≦ R ≦ 12 MΩ/500 V DC | AC 1 kV 1 minute | d, d' ≧ 3.2 mm |
| 110 to 130 V<br>200 to 240 V | Europe & Australia | R ≧ 10 MΩ/500 V DC | AC 3 kV 1 minute (Class Ⅱ)<br>AC 1.5 kV 1 minute (Class Ⅰ) | d ≧ 4 mm<br>d' ≧ 8 mm (Power cord)<br>d' ≧ 6 mm (Primary wire) |

**Table 1** Specifications for each region

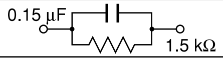
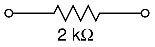
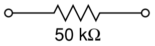
| AC Line Voltage | Region | Load Z | Leakage Current (i) | a, b, c |
|---|---|---|---|---|
| 100 V | Japan | 1 kΩ | i ≦ 1 mA rms | Exposed accessible parts |
| 110 to 130 V | USA & Canada |  0.15 µF 1.5 kΩ | i ≦ 0.5 mA rms | Exposed accessible parts |
| 110 to 130 V<br>220 to 240 V | Europe & Australia |  2 kΩ | i ≦ 0.7 mA peak<br>i ≦ 2 mA dc | Antenna earth terminals |
| | |  50 kΩ | i ≦ 0.7 mA peak<br>i ≦ 2 mA dc | Other terminals |

**Table 2** Leakage current specifications for each region

**Note:** These tables are unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

# SECTION 1
# DISASSEMBLY

## 1.1 BEFORE ASSEMBLY AND DISASSEMBLY

### 1.1.1 Precautions

1. Be sure to remove the power supply unit prior to mounting and soldering of parts.
2. When removing a component part that needs to disconnect the connector and to remove the screw for removing itself, first disconnect the connecting wire from the connector and then remove the screw beforehand.
3. When connecting and disconnecting the connectors, be careful not to damage the wire.
4. Carefully remove and handle the part to which some spacer or shield is attached for reinforcement or insulation.
5. When replacing chip parts (especially IC parts), desolder completely first (to prevent peeling of the pattern).
6. Tighten screws properly during the procedures.
   Unless specified otherwise, tighten screws at a torque of 0.069N•m(0.7kgf•cm).

### 1.1.2 Assembly and disassembly

| STEP No. | PART | Fig.No. | POINT | NOTE |
|---|---|---|---|---|
| ① | ZOOM OPE UNIT | Fig.1-3-1 | 3(S①),(L①a),4(L①b),CN(1a) | – |
| ② | FRONT COVER ASSY | Fig.1-3-2 | CN(2a) ,2(S②a),(S②b),<br>2(S②c),2(S②b),CN(2b) | NOTE②a<br>NOTE②b<br>NOTE②c<br>NOTE②d |

(1) (2) (3) (4) (5)

(1) Indicate the disassembly steps. When assembling, perform in the reverse order of these steps. This number corresponds to the number in the disassembly diagram.
(2) Indicates the name of disassembly/assembly parts.
(3) Indicates the number in the disassembly diagram.
(4) Indicates parts and points such as screws, washers, springs which must be removed during disassembly/assembly.

| Symbol | Name, Point |
|---|---|
| S | Screw |
| L | Lock, Pawl, Hook |
| SD | Soldering |
| ☆(Others) | Connector, Cover, Bracket, etc. |

(Example)
- 2 (S1) : Remove the two screws (S1) for removing the part 1.
- CN A : Disconnect the connector A.
- SD1 : Unsolder at the point SD1.

(5) Precautions on disassembly/assembly.

### 1.1.3 Destination of connectors

Note: *Three kinds of double-arrows in connection tables respectively show kinds of connector/wires.*
↔ : Wire
⇔ : Flat wire
⬌ : Board to Board connector

[Example]

| CONN. No. | CONNECTOR | | | | | Pin No. |
|---|---|---|---|---|---|---|
| (1a) | AUDIO | CN203 | ⇔ | ZOOM OPE | – | 8 |

### 1.1.4 Disconnection of Connectors (Wires)

Connector
Pull both ends of the connector in the arrow direction, remove the lock and disconnect the flat wire.

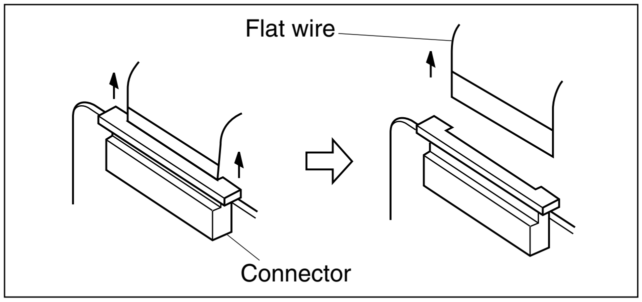


Fig. 1-1-1 Connector 1

Extend the locks in the direction of the arrow for unlocking and then pull out the wire. After removing the wire, immediately restore the locks to their original positions because the locks are apt to come off the connector.

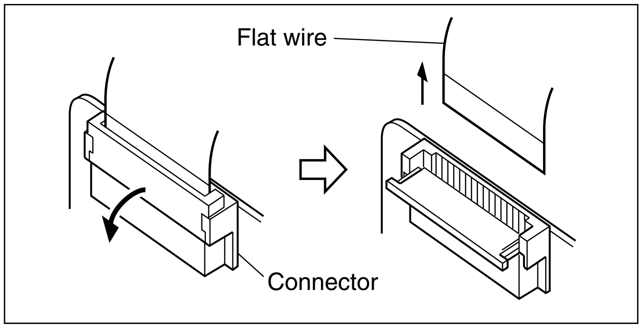


Fig. 1-1-2 Connector 2

B-B connector
Pull the board by both the sides in the direction of the arrow for disconnecting the B-B connector.

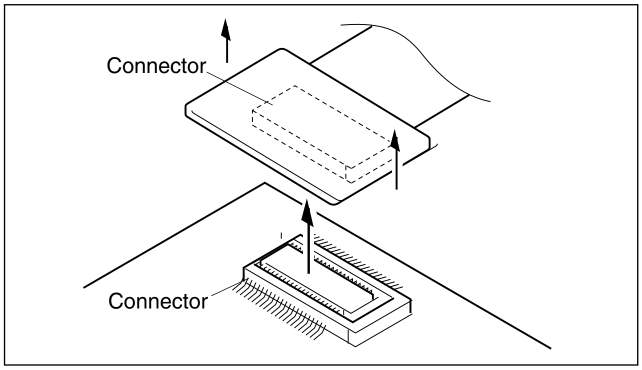


Fig. 1-1-3 Connector 3

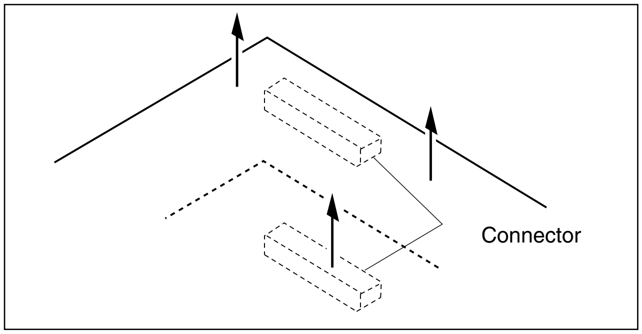


Fig. 1-1-4 Connector 4

## 1.2 JIGS AND TOOLS REQUIRED FOR DISASSEMBLY, ASSEMBLY AND ADJUSTMENT

### 1.2.1 Tools required for adjustments

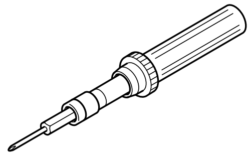
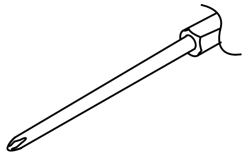
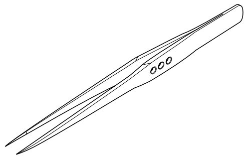
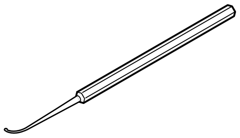
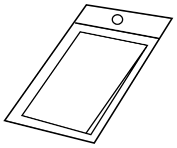
| 1 Torque Driver<br>YTU94088 | 2 Bit<br>YTU94088-003 |
|---|---|
|  |  |
| 3 Tweezers<br>P-895 | 4 Chip IC Replacement Jig<br>PTS40844-2 |
|  |  |
| 5 Cleaning Cloth<br>KSMM-01 | |
|  | |

Table 1-2-1

1. Torque driver
   Be sure to use to fastening the mechanism and exterior parts because those parts must strictly be controlled for tightening torque.
2. Bit
   This bit is slightly longer than those set in conventional torque drivers.
3. Tweezers
   To be used for removing and installing parts and wires.
4. Chip IC replacement jig
   To be used for adjustment of the camera system.
5. Cleaning cloth
   Recommended cleaning cloth to wipe down the video heads, mechanism (tape transport system), optical lens surface.

## 1.3 DISASSEMBLY/ASSEMBLY OF CABINET PARTS AND BOARD ASSEMBLY

### 1.3.1 Disassembly flow chart

This flowchart indicates the disassembly step for the cabinet parts and board assembly in order to gain access to item(s) to be serviced. When reassembling, perform the step(s) in reverse order.

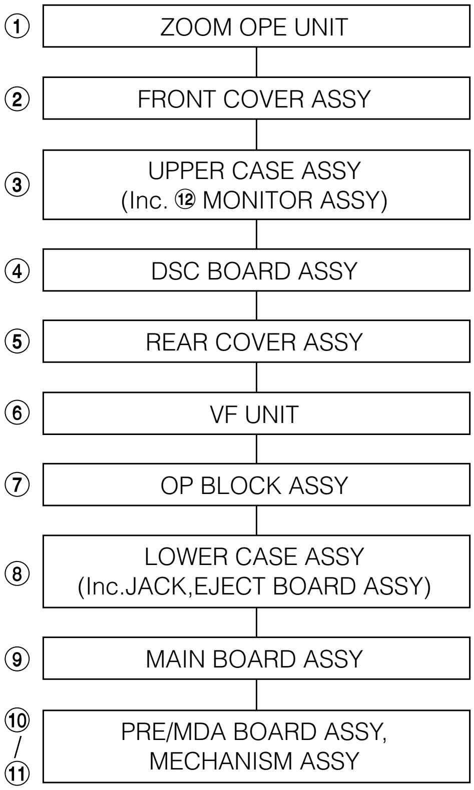

① ZOOM OPE UNIT
② FRONT COVER ASSY
③ UPPER CASE ASSY (Inc. ⑫ MONITOR ASSY)
④ DSC BOARD ASSY
⑤ REAR COVER ASSY
⑥ VF UNIT
⑦ OP BLOCK ASSY
⑧ LOWER CASE ASSY (Inc.JACK,EJECT BOARD ASSY)
⑨ MAIN BOARD ASSY
⑩ / ⑪ PRE/MDA BOARD ASSY, MECHANISM ASSY

Table 1-3-1

### 1.3.2 Disassembly method

| STEP No. | PART | Fig.No. | POINT | NOTE |
|---|---|---|---|---|
| ① | ZOOM OPE UNIT | Fig.1-3-1 | 3(S①),(L①a),4(L①b),CN(1a) | – |
| ② | FRONT COVER ASSY | Fig.1-3-2 | CN(2a) ,2(S②a),(S②b),<br>2(S②c),2(S②b),CN(2b) | NOTE②a<br>NOTE②b<br>NOTE②c<br>NOTE②d |
| ③ | UPPER CASE ASSY Inc. MONITOR ASSY | Fig.1-3-3 | 3(S③a),6(S③b),(S③c),<br>CN(3a) | NOTE③a<br>NOTE③b<br>NOTE③c |
| ④ | DSC BOARD ASSY | Fig.1-3-4 | (S④),LUG WIRE,HEAT SINK,<br>(L④),CN(4a) ,CN(4b) | NOTE④a<br>NOTE④b |
| ⑤ | REAR COVER ASSY | Fig.1-3-5 | CN(5a) ,2(S⑤a),(S⑤b) | – |
| ⑥ | VF UNIT | Fig.1-3-6 | HEAT SINK(MAIN),CN(6a) ,(S⑥a),<br>2(S⑥b),(L⑥a),(L⑥b),2(L⑥c) | NOTE⑥ |
| ⑦ | OP BLOCK ASSY | Fig.1-3-7 | (S⑦a),LUG WIRE,CN(7a) ,<br>CN(7b) ,CN(7c) ,CN(7d) ,2(S⑦b),<br>(L⑦a),(L⑦b) | – |
| ⑧ | LOWER CASE ASSY | Fig.1-3-8 | CN(8a) ,CN(8b) ,3(S⑧a),<br>(S⑧b),2(L⑧a),(L⑧b) | – |
| ⑨ | MAIN BOARD ASSY | Fig.1-3-9 | CN(9a) ,(S⑨),(L⑨) | – |
| ⑩<br>/<br>⑪ | PRE/MDA BOARD ASSY, MECHANISM ASSY | Fig.1-3-10 | 3(S⑩a),BKT(MECHA) ASSY,<br>2(S⑩b),<br>(L⑩),SHIELD COVER(PRE/REC),<br>CN(10a) ,CN(10b) ,CN(10c) ,<br>CN(10d) ,CN(10e) ,CN(10f) ,<br>3(S(10b)) | NOTE⑩a<br>NOTE⑩b |

Table-1-3-2

**Note ②a:** *Open the cassette cover after removing the screws.*

**Note ②b:** *Be careful not to damage the FPC when unplugging it.*

**Note ②c:** *As the ⑦ OP Block Assembly is exposed as a result of the above steps, be careful not to damage any of its parts. Take particular care not to scratch the lens surfaces.*

**Note ②d:** *When mounting the parts, set the REC MODE switch to "video". Also set the lever to the uppermost position at the same time.*

**Note ③a/③b:** *Be sure to confirm the position of the screws.*

**Note ④a:** *Be careful not to damage the CONNECTOR.*

**Note ③c:** *For the disassembly of the ⑫ Monitor Assembly, see section 1.6, "Disassembly/Assembly of ⑫ Monitor Assembly".*

**Note ④b:** *Handle the peeled-off heat sink carefully because it should be reused in the assembly.*

**Note ⑥:** *For the disassembly of the ⑥ VF Unit, see section 1.4, "Disassembly/Assembly of ⑥ VF Unit".*

**Note ⑩a:** *The FPC of the loading motor should be mounted by inserting it between the Mechanism*

*Assembly and the PRE/MDA Board Assembly.*

**Note ⑩b:** *When mounting the shield cover, push down the FPC of the drum while attaching it.*

**Note:** *Remove the parts marked in* ▨ .

| CONN. No. | CONNECTOR | | | | | Pin No. |
|---|---|---|---|---|---|---|
| (1a) | ▨ AUDIO | ▨ CN203 | ⇔ | ZOOM OPE | – | 8 |
| (2a) | ▨ AUDIO | ▨ CN201 | ⬌ | ▨ MAIN | ▨ CN112 | 80 |
| (2b) | ▨ EJECT | ▨ CN2421 | ⇔ | FRONT FPC | – | 12 |
| (3a) | ▨ MAIN | ▨ CN108 | ⬌ | ▨ MONITOR | ▨ – | 50 |
| (4a) | ▨ DSC | ▨ CN8401 | ⬌ | ▨ MAIN | ▨ CN105 | 120 |
| (4b) | ▨ DSC | ▨ CN8402 | ⇔ | JACK | CN301 | 20/45 |
| (5a) | ▨ MAIN | ▨ CN109 | ⬌ | ▨ REG | ▨ CN601 | 80 |
| (6a) | ▨ MAIN | ▨ CN110 | ⇔ | VF UNIT | CN501 | 22 |
| (7a) | ▨ MAIN | ▨ CN102 | ⇔ | CCD | – | 20 |
| (7b) | ▨ MAIN | ▨ CN101 | ↔ | CCD | – | 2 |
| (7c) | ▨ MAIN | ▨ CN103 | ↔ | OP BLOCK ASSY | – | 2 |
| (7d) | ▨ MAIN | ▨ CN104 | ⇔ | OB BLOCK ASSY | – | 39 |
| (8a) | ▨ EJECT | ▨ CN2422 | ⇔ | MAIN | CN113 | 13 |
| (8b) | JACK | CN301 | ⇔ | ▨ MAIN | ▨ CN111 | 24/45 |
| (9a) | ▨ MAIN | ▨ CN106 | ⬌ | ▨ PRE/MDA | ▨ CN401 | 80 |
| (10a) | ▨ PRE/MDA | ▨ CN406 | ⇔ | SENSOR | – | 16 |
| (10b) | ▨ PRE/MDA | ▨ CN405 | ⇔ | CAPSTAN .MOTOR | – | 18 |
| (10c) | ▨ PRE/MDA | ▨ CN404 | ⇔ | DRUM MOTOR | – | 11 |
| (10d) | ▨ PRE/MDA | ▨ CN402 | ⇔ | HEAD | – | 8 |
| (10e) | ▨ PRE/MDA | ▨ CN407 | ⇔ | ROTARY ENCODER | – | 6 |
| (10f) | ▨ PRE/MDA | ▨ CN403 | ⇔ | LOADING MOTOR | – | 6 |

Table-1-3-3

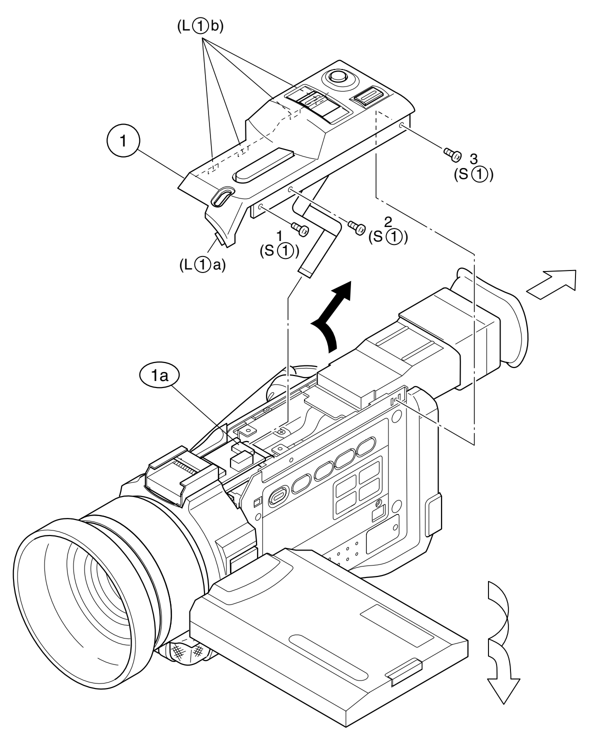


Fig. 1-3-1

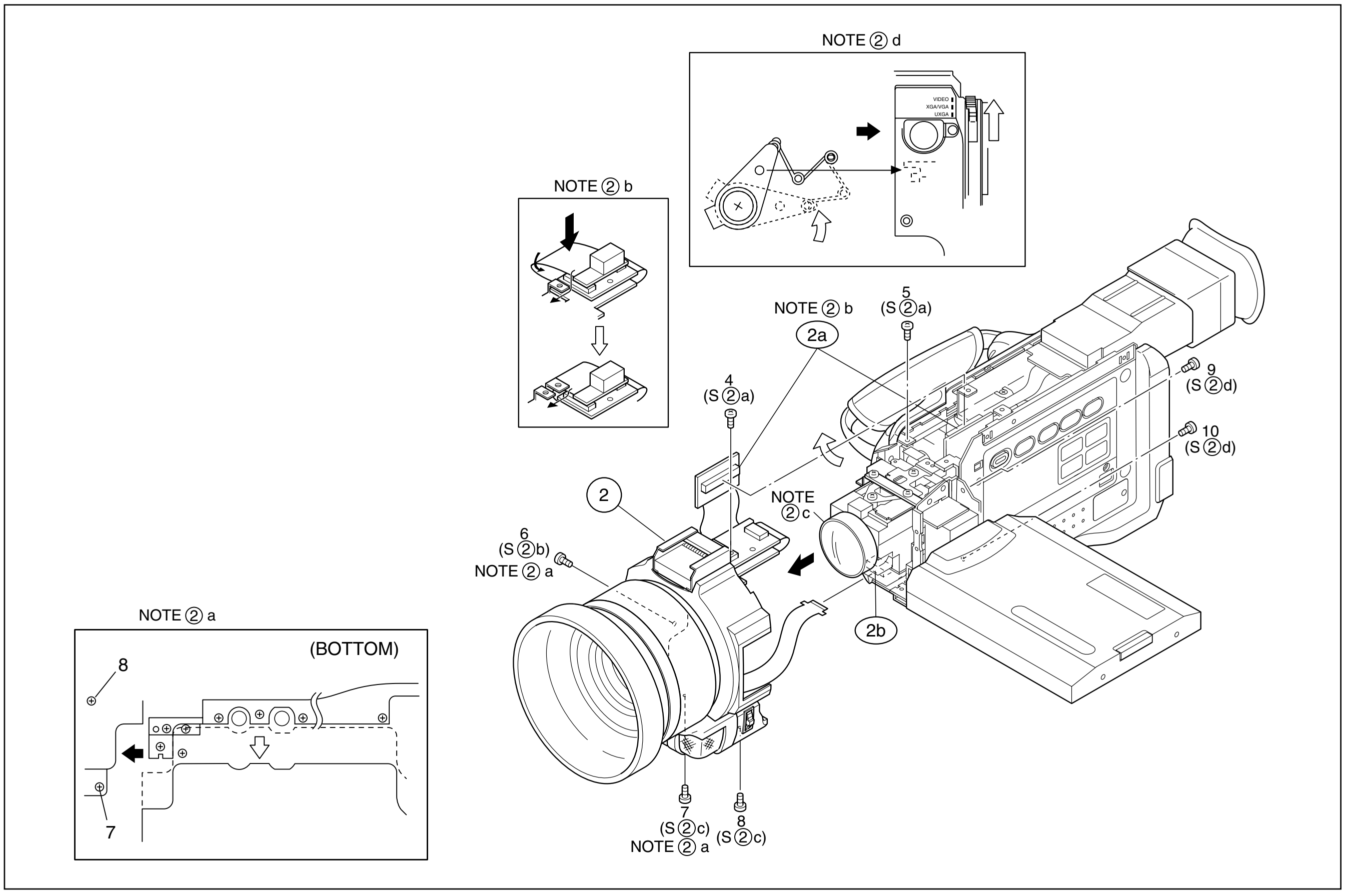

NOTE ② d
VIDEO
XGA/VGA
UXGA
NOTE ② b
NOTE ② b
5
(S ②a)
2a
4
(S ②a)
9
(S ②d)
10
(S ②d)
2
NOTE
② c
6
(S ②b)
NOTE ② a
2b
NOTE ② a
(BOTTOM)
8
7
7
(S ②c)
NOTE ② a
8
(S ②c)

Fig. 1-3-2

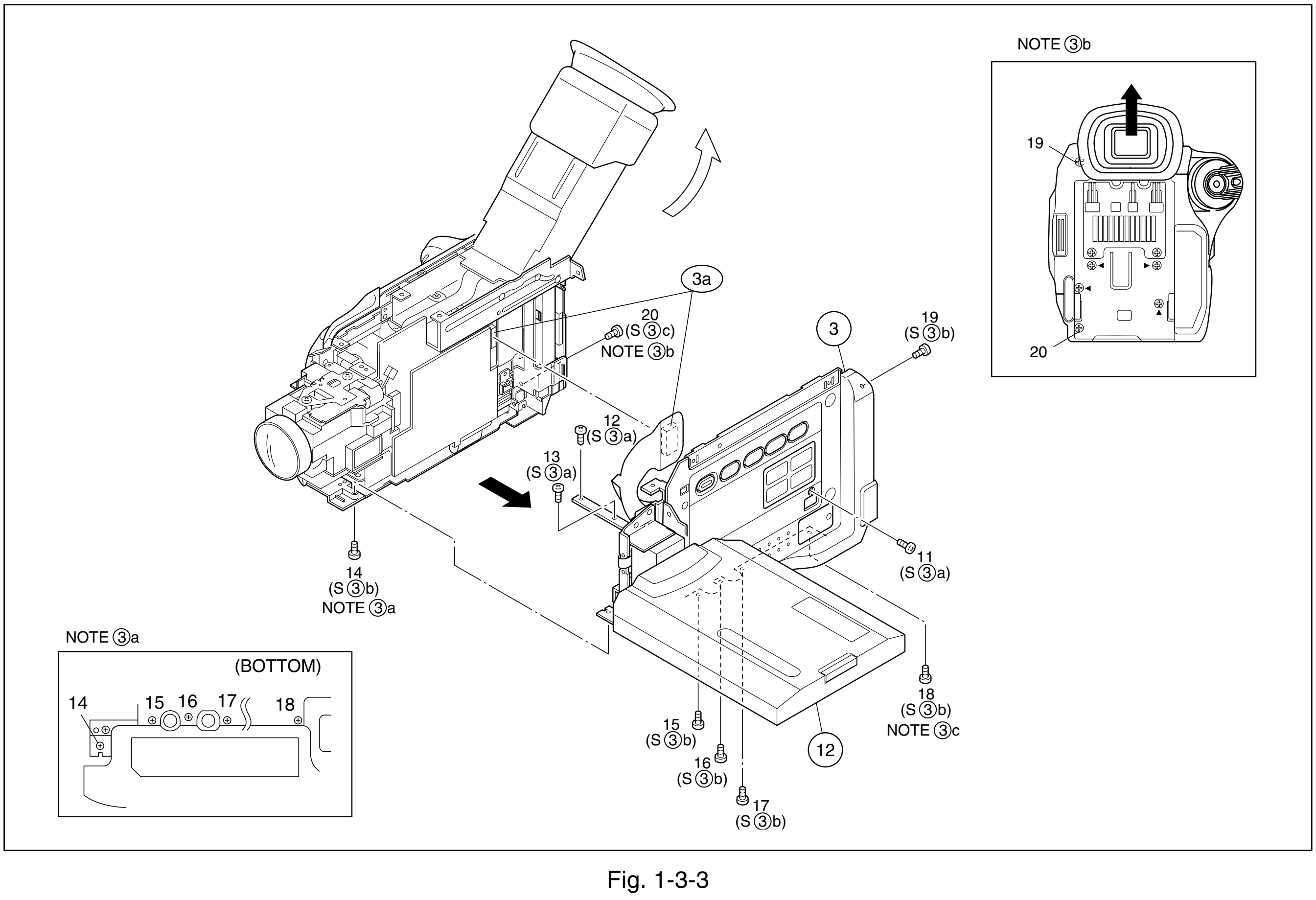

NOTE ③b
19
20
3a
20
(S ③c)
NOTE ③b
3
19
(S ③b)
12
(S ③a)
13
(S ③a)
11
(S ③a)
14
(S ③b)
NOTE ③a
NOTE ③a
(BOTTOM)
14
15
16
17
18
18
(S ③b)
NOTE ③c
15
(S ③b)
12
16
(S ③b)
17
(S ③b)

Fig. 1-3-3

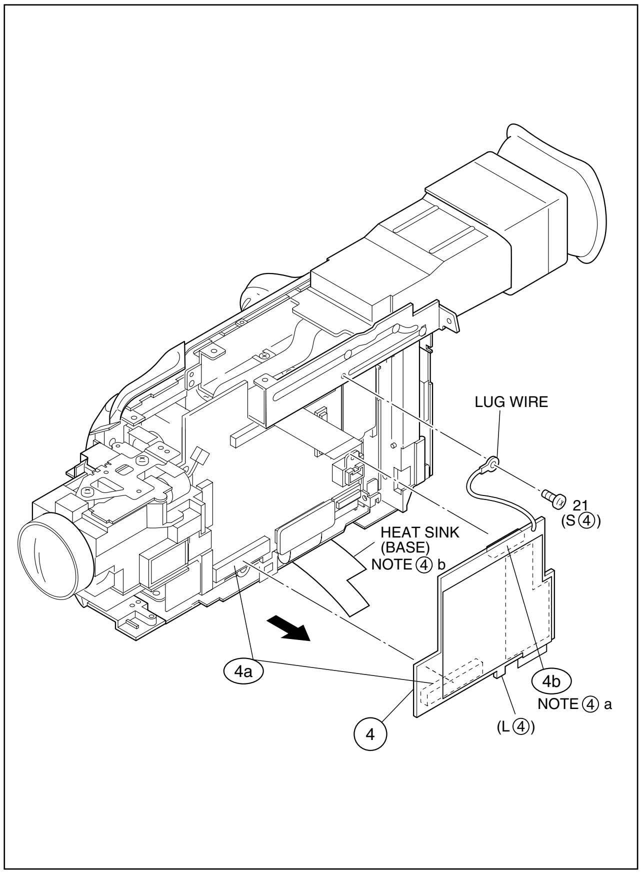

LUG WIRE
21
(S④)
HEAT SINK
(BASE)
NOTE ④ b
4a
4b
NOTE ④ a
4
(L④)

Fig. 1-3-4

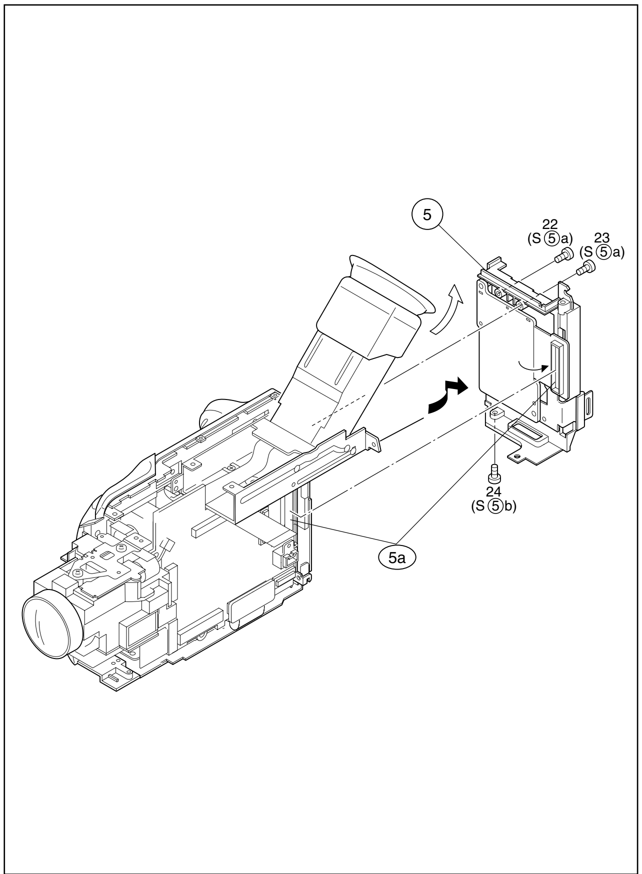

5
22
(S⑤a)
23
(S⑤a)
24
(S⑤b)
5a

Fig. 1-3-5

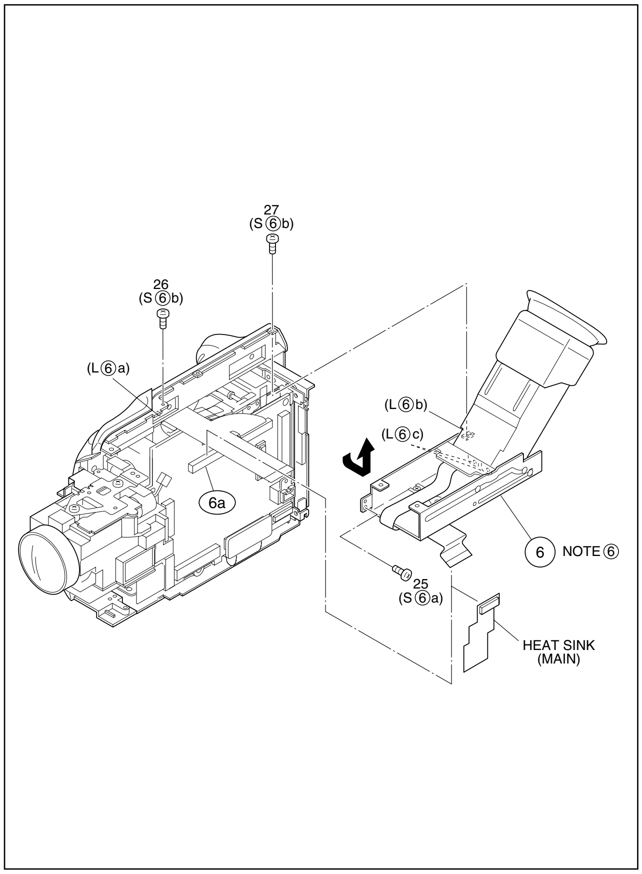

27
(S⑥b)
26
(S⑥b)
(L⑥a)
(L⑥b)
(L⑥c)
6a
6
NOTE ⑥
25
(S⑥a)
HEAT SINK
(MAIN)

Fig. 1-3-6

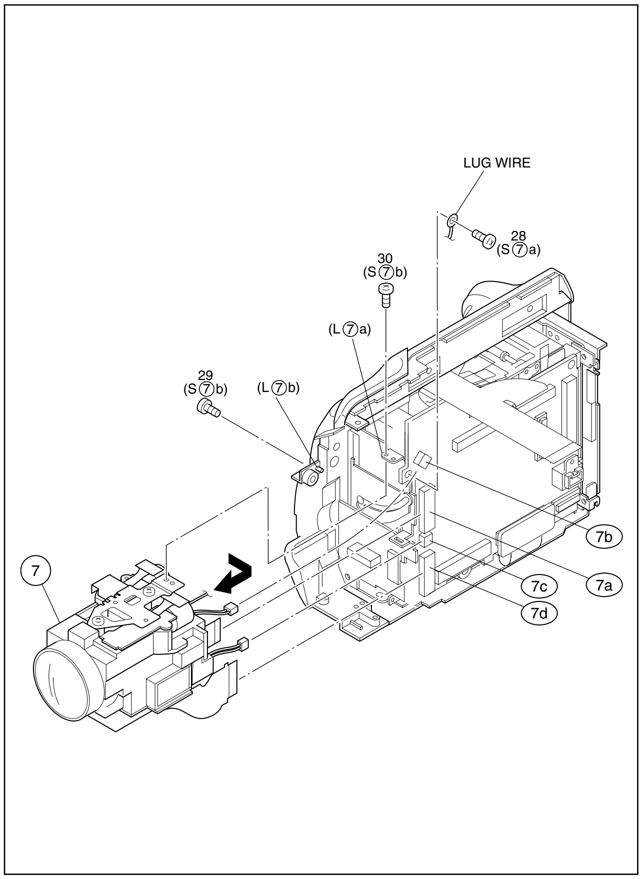

LUG WIRE
28
(S⑦a)
30
(S⑦b)
(L⑦a)
29
(S⑦b)
(L⑦b)
7b
7
7c
7a
7d

Fig. 1-3-7

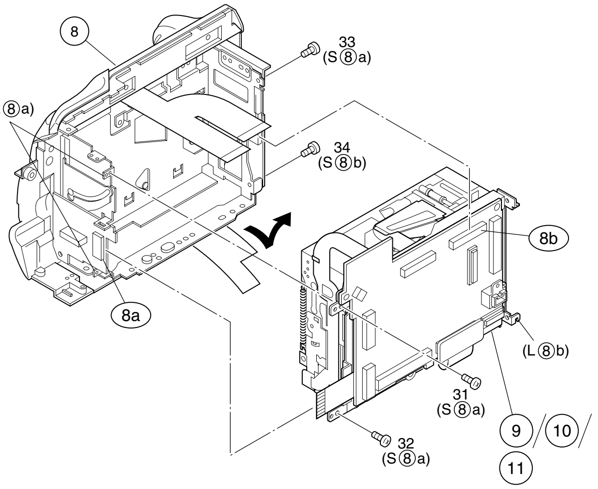

8
33
(S⑧a)
(L⑧a)
34
(S⑧b)
8b
8a
(L⑧b)
31
(S⑧a)
32
(S⑧a)
9
10
11

Fig. 1-3-8

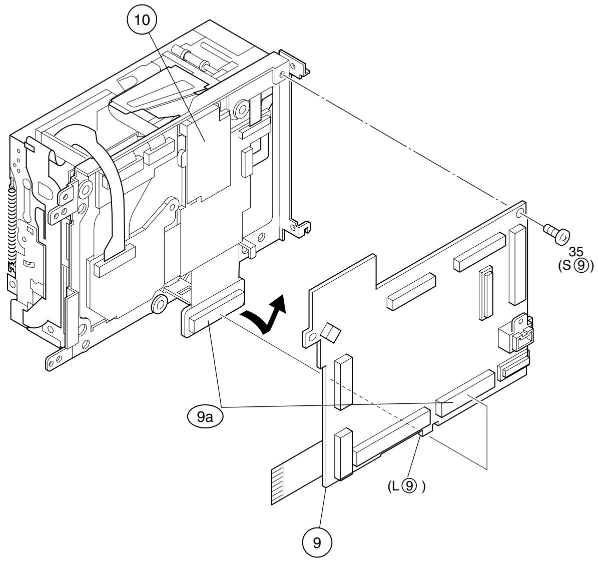
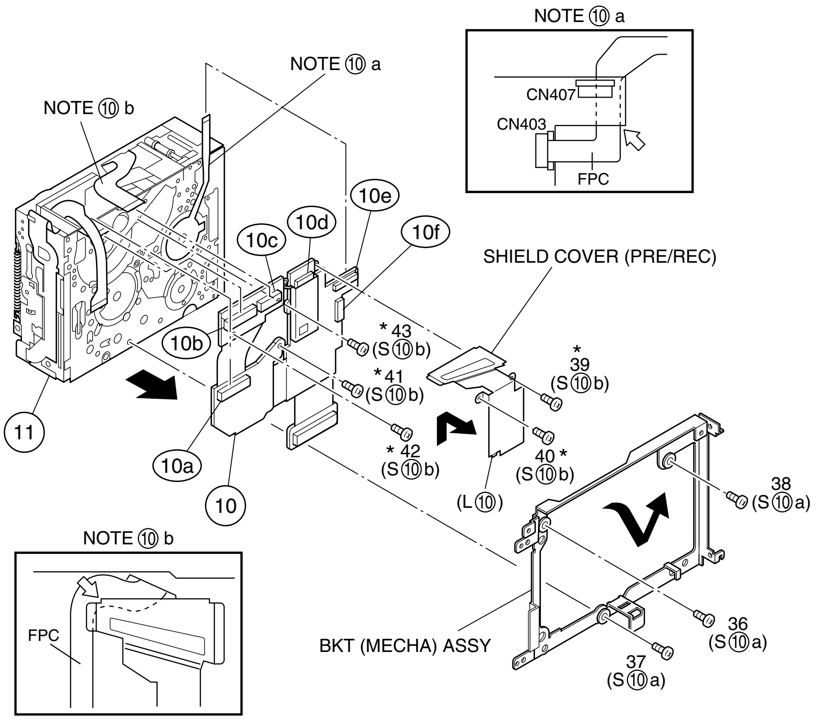

10
35
(S⑨)
9a
(L⑨ )
9

Fig. 1-3-9


NOTE ⑩ a
CN407
CN403
FPC
NOTE ⑩ a
NOTE ⑩ b
10e
10d
10c
10f
SHIELD COVER (PRE/REC)
10b
*43
(S⑩b)
*41
(S⑩b)
*
39
(S⑩b)
*42
(S⑩b)
40 *
(S⑩b)
(L⑩)
11
10a
10
38
(S⑩a)
NOTE ⑩ b
FPC
BKT (MECHA) ASSY
36
(S⑩a)
37
(S⑩a)

* : 0.078 N·m (0.8 kgf·cm)

Fig. 1-3-10

## 1.4 ⑥ VF UNIT

### 1.4.1. Disassembly/Assembly of the ⑥ VF UNIT

1. Remove the 2 screws (1 and 2) and then remove the EYE CAP.
2. Remove the 2 screws (3 and 4).
3. Pull out the VF assembly and them remove the 4 screws (5 to 8) to release the FPC ASSY.
4. Remove the 2 screws (9 and 10) then lift the VF UNIT from the BRACKET (VF) ASSY and take out the FPC ASSY.

   **Note⑥a :** *Be careful not to disconnect or break the FPC ASSY wire.*

5. Remove the 2 screws (11 and 12) to remove the UPPER CASE ASSY.

   **Note⑥b :** *Be careful not to lose any of the parts.*

6. Remove the LCD UNIT from the BOTTOM CASE ASSY.

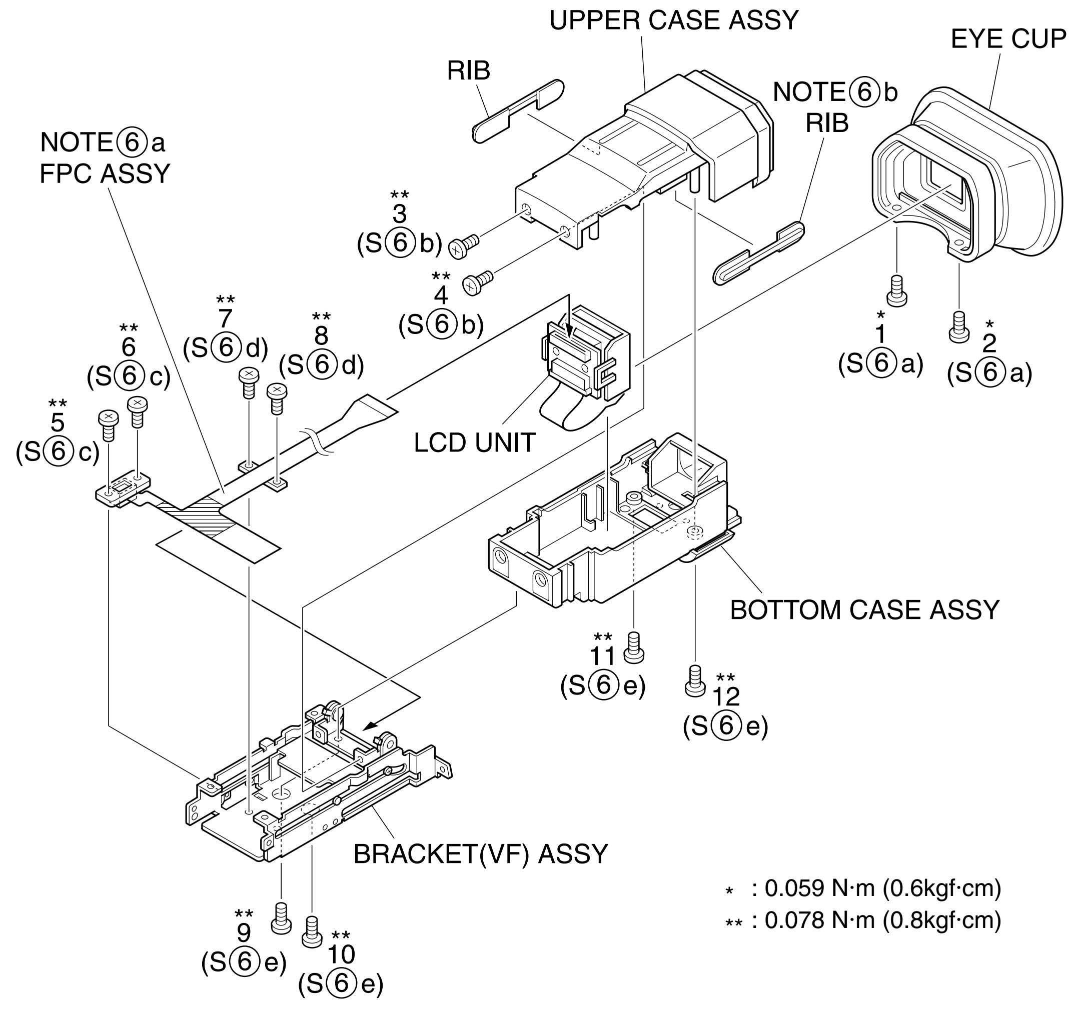

UPPER CASE ASSY
EYE CUP
RIB
NOTE⑥b
RIB
NOTE⑥a
FPC ASSY
** 3 (S⑥b)
** 4 (S⑥b)
** 7 (S⑥d)
** 8 (S⑥d)
** 6 (S⑥c)
** 5 (S⑥c)
* 1 (S⑥a)
* 2 (S⑥a)
LCD UNIT
BOTTOM CASE ASSY
** 11 (S⑥e)
** 12 (S⑥e)
BRACKET(VF) ASSY
** 9 (S⑥e)
** 10 (S⑥e)
* : 0.059 N·m (0.6kgf·cm)
** : 0.078 N·m (0.8kgf·cm)

Fig. 1-4-1

## 1.5 DISASSEMBLY ⑦ OF THE OP BLOCK AND CCD BOARD ASSEMBLIES

### 1.5.1 Precautions

1. Take care in handling the CCD image sensor, optical LPF and lens components when performing maintenance etc., especially with regard to surface contamination, attached dust or scratching. If fingerprints are present on the surface they should be wiped away using either a silicon paper, clean chamois or the cleaning cloth recommended by the Video Product Division.
2. The CCD image sensor may have been shipped with a protective sheet attached to the transmitting glass. When replacing the CCD image sensor, do not peel off this sheet from the new part until immediately before it is mounted in the OP Block Assembly.

### 1.5.2 How to remove

1. Remove the solder (SD1) from the 16 soldered points on the CCD Board Assembly and take the assembly out.
2. Remove the two screws (1, 2) and take out the CCD Base Assembly.

**Note ⑦a:** *When removing the CCD Base Assembly, be careful not to take out the CCD image sensor together with the spacer rubbers attached to it.*

**Note ⑦b:** *The CCD image sensor should not be replaced as a single part but should be replaced together with the entire CCD Base Assembly.*

### 1.5.3 How to install

1. With the spacer rubbers attached to the CCD base, mount the CCD base in the OP Block Assembly and tighten them together using the two screws (1, 2).
2. Mount the CCD Board Assembly and attach solder to the 16 points (SD1).

### 1.5.4 Replacement of Service Repair Parts

The service repair parts for the OP Block Assembly are as listed below.
Before replacement of these parts, remove the bracket (OP assyembly) as required.
Take special care not to disconnect any of the FPC wires or cause any damage due to soldering (excessive heating).

1. Focusing motor
2. Zoom motor
3. Iris motor unit

**Note ⑦c:** *When replacing the focusing motor or the zoom motor, solder the FPC at a space of about 1 mm above the terminal pin.*

**Note ⑦d:** *The iris motor unit includes the FPC Assembly and two sensors.*

**Note ⑦e:** *Be careful not to damage the switch.*

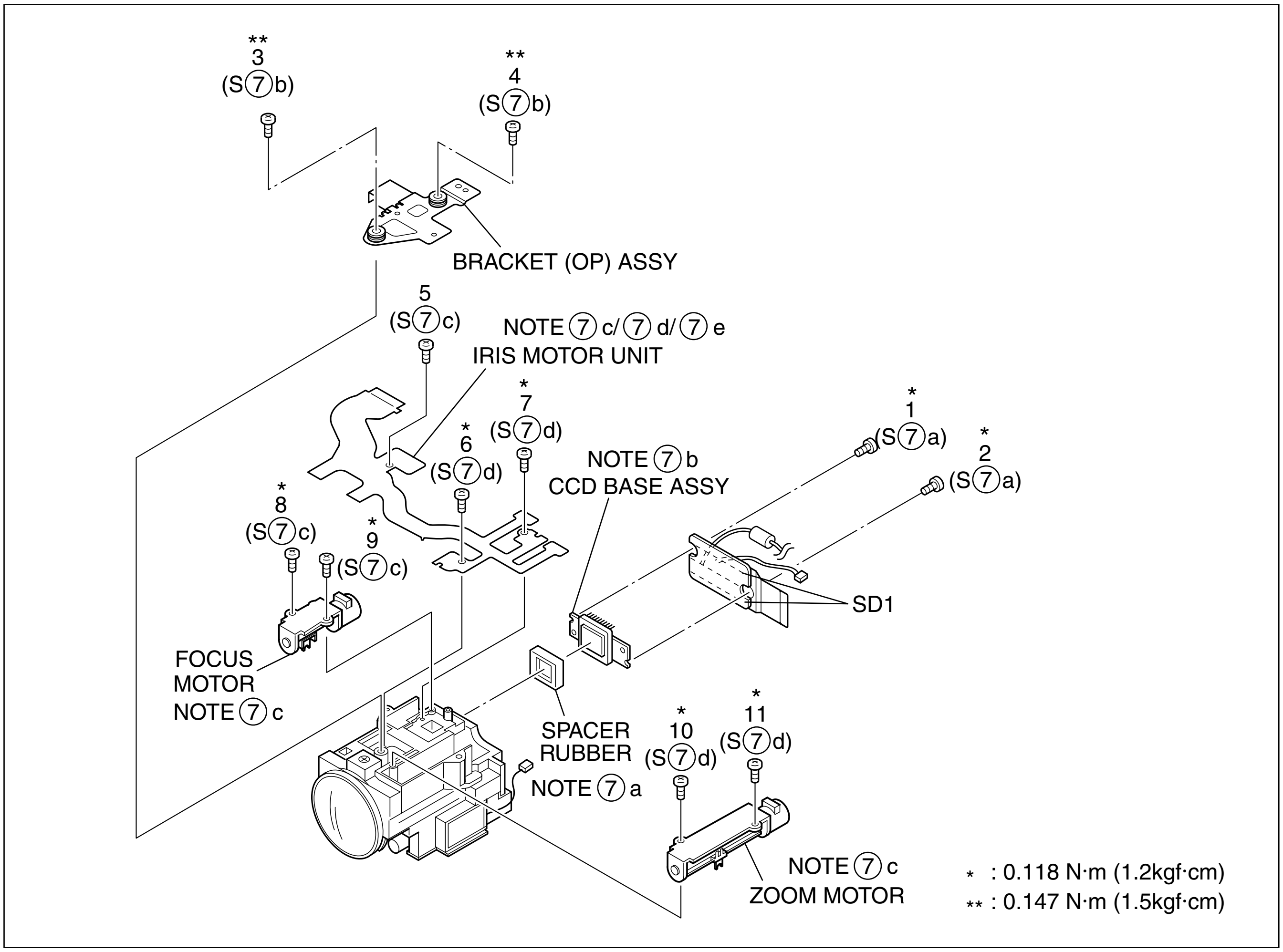


Fig. 1-5-1

## 1.6 DISASSEMBLY/ASSEMBLY OF THE ⑫ MONITOR ASSEMBLY

### 1.6.1 ⑫ Monitor Assembly and Hinge Assembly

1. Remove the four screws (1 to 4), disengage the four hooks (L⑫ a to d) in order, and take out the Monitor Cover Assembly.
2. Unlock the connector (a) and, while lifting the Hinge Assembly, unplug and take out the FPC.
3. Remove the screw (5) and take out the bracket (MONITOR CASE).
4. Unplug the FPC from the connector (d) and take out the Monitor Board Assembly and the backlight.
5. Remove the LCD module by disengaging the five hooks (L⑫ e to j).
6. Remove the two screws (6, 7) and take out the hinge covers (1, 2) by disengaging the four hooks (L⑫ k, l) at both sides of each of the hinge covers.
7. Remove the FPC Assembly from the Hinge Assembly.

**Note ⑫a:** *Don't reuse the screw, because screw lock bond was applied to them.*

**Note ⑫b:** *Be careful not to damage the FPC or the connector when removing the Monitor Cover Assembly.*

**Note ⑫c:** *Be careful not to damage the parts when removing or mounting the Hinge Assembly.*

**Note ⑫d:** *To unplug the FPC, release only the lock of the connector and remove the FPC together with the Hinge Assembly.*

**Note ⑫e:** *As the backlight is soldered at two points on the Monitor Board Assembly, the solder should be removed when disassembling the backlight as a single part.*

**Note ⑫f:** *Take care when handling the FPC.*

**Note ⑫g:** *Be careful not to lose the magnets and attach them in the correct orientation.*

**Note ⑫h:** *When mounting the FPC Assembly, wrap it around the Hinge Assembly by 3-1/2 turns.*

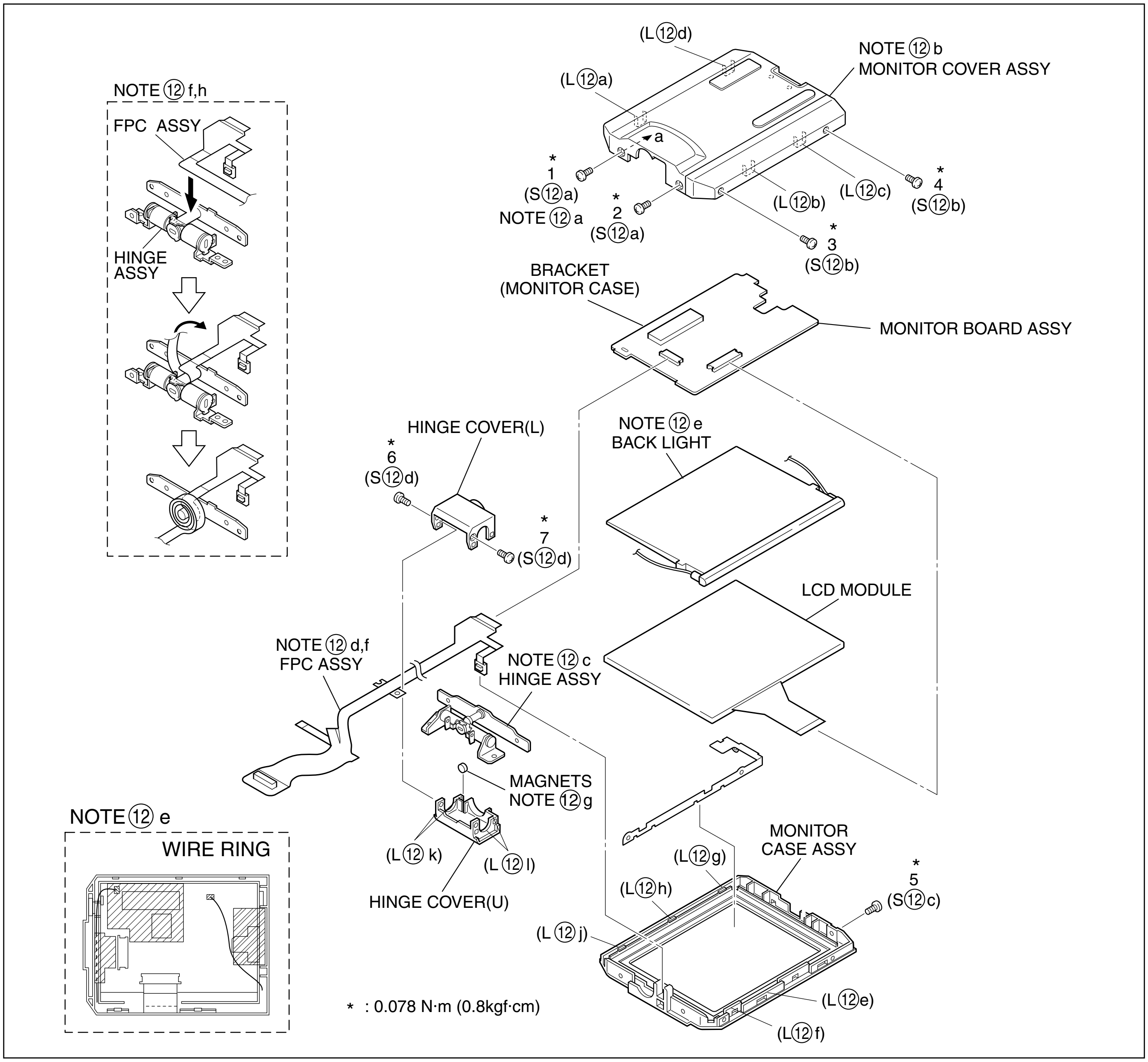

(L⑫d)
NOTE ⑫ b
MONITOR COVER ASSY
(L⑫a)
a
NOTE ⑫ f,h
FPC ASSY
HINGE ASSY
*
1
(S⑫a)
NOTE ⑫ a
*
2
(S⑫a)
(L⑫b)
(L⑫c)
*
4
(S⑫b)
*
3
(S⑫b)
BRACKET
(MONITOR CASE)
MONITOR BOARD ASSY
HINGE COVER(L)
*
6
(S⑫d)
*
7
(S⑫d)
NOTE ⑫ e
BACK LIGHT
LCD MODULE
NOTE ⑫ d,f
FPC ASSY
NOTE ⑫ c
HINGE ASSY
MAGNETS
NOTE ⑫ g
NOTE ⑫ e
WIRE RING
(L⑫ k)
(L ⑫ l)
HINGE COVER(U)
(L⑫g)
MONITOR
CASE ASSY
*
5
(S⑫c)
(L⑫h)
(L ⑫ j)
(L⑫e)
(L⑫ f)
* : 0.078 N·m (0.8kgf·cm)

Fig. 1-6-1

## 1.7 MANUAL EJECTION OF THE CASSETTE TAPE

**Note:** *The following procedure describes a simplified method of ejecting the cassette tape in case it is not possible to eject it, due to an electrical failure.*

*Be careful not to damage any of the parts or the tape when performing repairs or maintenance work.*

1. Remove the Power Unit (battery, DC code, etc.) from the main unit.
2. Open the cassette cover.
3. Attach a piece of PVC tape at the front of the cassette housing.

**Note:** *This helps prevent the tape from being damaged when the Cassette Housing Assembly is moved upward at the unloading end.*

4. In order to change the mechanism mode at the unloading end apply 3 V, DC to the electrode on the top surface of the Loading Motor Assembly and then set it to the eject mode.
5. If there is any slack tape in the tape transport system, wind it inside the cassette tape by turning the Supply Reel Disk from the backside of the Slide Deck Assembly.
6. Peel off the PVC tape and take out the cassette tape from the cassette housing.

**Note:** *Make sure that grease or a similar substance is not attached to the surface of the tape.*
*Similarly, also make sure that grease or a similar substance is not attached on the Mechanism Assembly.*

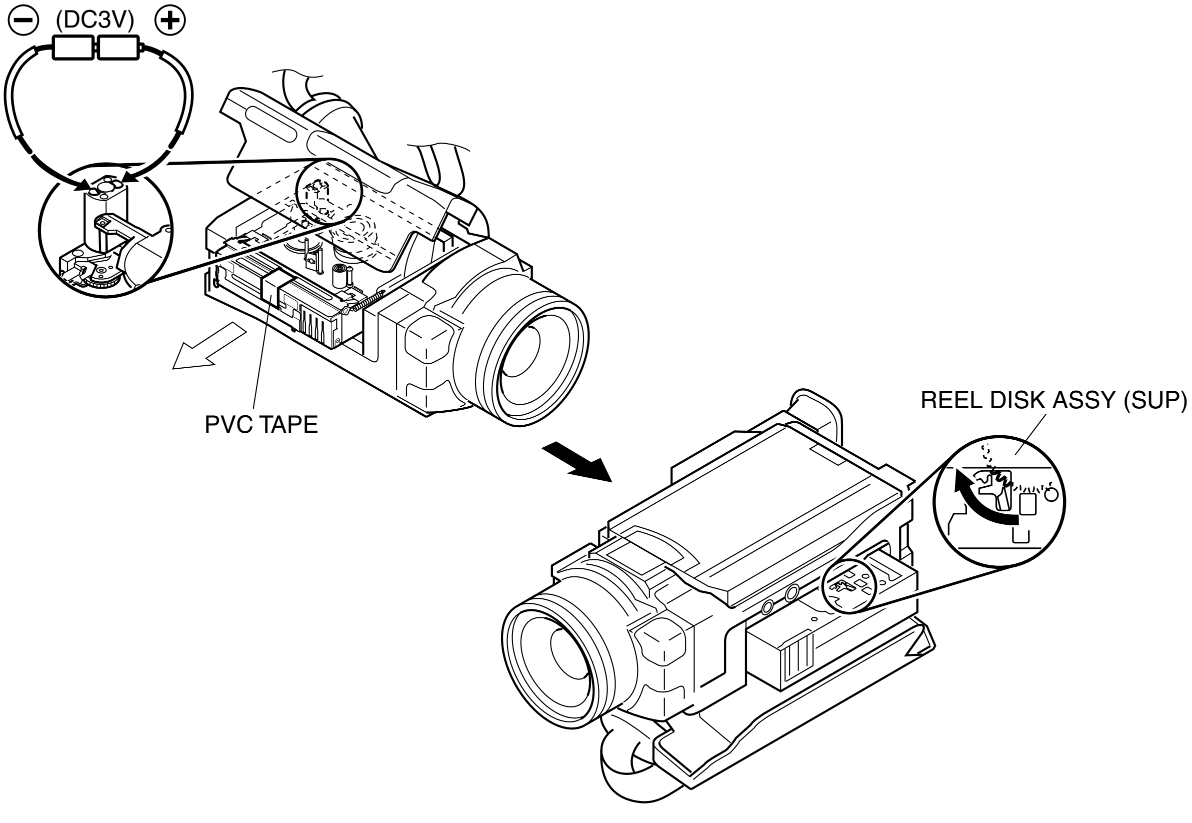


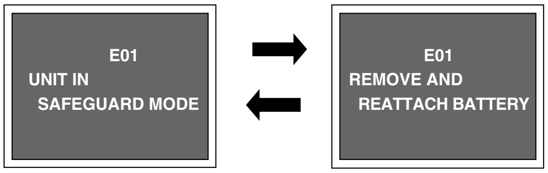
Fig. 1-7-1

## 1.8 EMERGENCY DISPLAY

Whenever some abnormal signal is input to the syscon CPU, an error number (E01, as an example) is displayed on the LCD monitor or (in the electronic view finder).
In every error status, such the message as shown below alternately appear over and over.

- In an emergency mode, all operations except turning on/off the POWER switch are ineffectual.

Example (in case of the error number E01):



E01
UNIT IN
SAFEGUARD MODE

E01
REMOVE AND
REATTACH BATTERY

| LCD display | Emergency mode | Details | Possible cause |
|---|---|---|---|
| E01 | LOADING | In the case the encoder position is not shifted to the next point though the loading motor has rotated in the loading direction for 4 seconds or more. This error is defined as [E01]. | 1. The mechanism is locked during mode shift.<br>2. The mechanism is locked at the mechanism loading end, because the encoder position is skipped during mechanism mode shift.<br>3. No power is supplied to the loading MDA. |
| E02 | UNLOADING | In the case the encoder position is not shifted to the next point though the loading motor has rotated in the unloading direction for 4 seconds or more. This error is defined as [E02]. | 1. The mechanism is locked during mode shift.<br>2. The mechanism is locked at the mechanism loading end, because the encoder position is skipped during mechanism mode shift. |
| E03 | TU & SUP REEL FG | In the case no REEL FG is produced for 4 seconds or more in the capstan rotation mode after loading was complete, the mechanism mode is shifted to STOP with the pinch roller set off.<br>This error is defined as [E03].<br>However, no REEL EMG is detected in the SLOW/STILL mode. | 1. The idler gear does not engage with the reel disk well.<br>2. Though the idler gear and reel disk are engaged with each other, the tape is not wound because of overload to the mechanism.<br>3. No FG pulse is output from the reel sensor.<br>4. No power is supplied to the reel sensor.<br>5. Tape transport operation takes place with a cassette having no tape inside.<br>6. The tape slackens and no pulse is produced until the slack is taken up and the tape comes into the normal status. |
| E04 | DRUM FG | In the case there is no DRUM FG input in the drum rotation mode for 4 seconds or more. This error is defined as [E04], and the mechanism mode is shifted to STOP with the pinch roller set off. | 1. The drum cannot be started or drum rotation is stopped because tape transport load is too high.<br>1) Tape tension is extremely high.<br>2) The tape is damaged or soiled with grease, etc.<br>2. The DRUM FG signal is not received by the syscon CPU.<br>1) Disconnection in the middle of the signal line.<br>2) Failure of the DRUM FG pulse generator (hall element).<br>3. No drum control voltage is supplied to the MDA.<br>4. No power is supplied to the DRUM MDA. |
| E05 | – | – | – |
| E06 | CAPSTAN FG | In the case no CAPSTAN FG is produced in the capstan rotation mode for 2 seconds or more. This error is defined as [E06], and the mechanism mode is shifted to STOP with the pinch roller set off.<br>However, no CAPSTAN EMG is detected in the STILL/FF/REW mode. | 1. The CAPSTAN FG signal is not received by the syscon CPU.<br>1) Disconnection in the middle of the signal line.<br>2) Failure of the CAPSTAN FG pulse generator (MR element).<br>2. No capstan control voltage is supplied to the MDA.<br>3. No power is supplied to the CAPSTAN MDA.<br>4. The capstan cannot be started or capstan rotation is stopped because tape transport load is too high.<br>1) Tape tension is extremely high. (Mechanical locking)<br>2) The tape is damaged or soiled with grease, etc. (Tape tangling occurs, etc.) |

(DVC_03)

Table 1-8-1

## 1.9 SERVICE NOTE

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Symbol No. → | ① | | | ② | | | | | | | ③ | | | | | | | | | |
| Removing order of screw → | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| Place to stick screw → | * | * | * | * | * | | | | | | * | * | * | | | | | | | |
| Reference drawing → | Fig. 1-3-1 | | | Fig. 1-3-2 | | | | | | | Fig. 1-3-3 | | | | | | | | | |
| Screw tightening torque → | I | | | I | | | | | | | I | | | | | | | | | |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Symbol No. → | ④ | ⑤ | | | ⑥ | | | ⑦ | | | ⑧ | | | | ⑨ |
| Removing order of screw → | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |
| Place to stick screw → | | | | | | * | * | | * | * | | | | | |
| Reference drawing → | Fig. 1-3-4 | Fig. 1-3-5 | | | Fig. 1-3-6 | | | Fig. 1-3-7 | | | Fig. 1-3-8 | | | | Fig. 1-3-9 |
| Screw tightening torque → | I | I | | | I | | | I | | | I | | | | I |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Symbol No. → | ⑩ | | | | | | | |
| Removing order of screw → | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 |
| Place to stick screw → | | | | | | | | |
| Reference drawing → | Fig. 1-3-10 | | | | | | | |
| Screw tightening torque → | I | | II | | | | | |

| ⑥ VF UNIT | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | | | | | | | | | | | |
| Fig. 1-4-1 | | | | | | | | | | | |
| III | II | | | | | | | | | | |

| | ⑦ OP BLOCK ASSY | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Removing order of screw → | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Place to stick screw → | | | | | | | | | | | | |
| Reference drawing → | Fig. 1-5-1 | | | | | | | | | | | |
| Screw tightening torque → | IV | | V | | IV | | | | | | | |

| ⑫ MONITOR ASSY | | | | | | |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| * | * | | | | | |
| Fig. 1-6-1 | | | | | | |
| II | | | | | | |

< NOTE >

1) *; Don't reuse the screw, because screw lock bond was applied to them.

2) Pay careful attention to tightening torque for each screw.

I : 0.069N·m (0.7kgf·cm)　II : 0.078N·m (0.8kgf·cm)　III : 0.059N·m (0.6kgf·cm)
IV : 0.118N·m (1.2kgf·cm)　V : 0.147N·m (1.5kgf·cm)

Table 1-9-1

# SECTION 2
# MECHANISM ADJUSTMENT

## 2.1 PRELIMINARY REMARKS ON ADJUSTMENT AND REPAIR

### 2.1.1 Precautions

1. When fastening parts, pay careful attention to the tightening torque of each screw. Unless otherwise specified, tighten a screw with the torque of 0.039 N•m (0.4 kgf•cm).
2. Be sure to disconnect the set from the power supply before fastening and soldering parts.
3. When disconnecting/connecting wires, be careful not to get them and their connectors damaged. (Refer to the Section 1.)
4. When replacing parts, be very careful neither to damage other parts nor to fit wrong parts by mistake.

### 2.1.2 Notes on procedure for disassemby/assembly

The disassembling procedure table (Table 2-4-1 on page 2-5,a part of the table is shown below for reference)shows the procedure to disassemble/reassemble mechanism parts.
Carefully read the following explanation before starting actual disassembling/reassembling work. The item numbers (circled numbers)in the following explanation correspond to those appearing under respective columns of the table.

(1) Circled numbers appearing in this column indicate the order to remove parts. When reassembling, follow these numbers in the reverse order. Circled numbers in this column correspond to those appearing in drawings of this section.

(2) This column shows part names corresponding to circled numbers in the left column.

(3) The symbol (T or B)appearing in this column shows the side which the objective part is mounted on.
T =the upper side, B =the lower side

(4) Symbols appearing in this column indicate drawing numbers.
Step Part Name Fig. Point Note Remarks

(5) This column indicates parts and points such as screws, washers,springs,and others to be removed/fitted for disassembling/reassembling the mechanism. Besides such the parts, this column occasionally indicates working points.

P = Spring
W = Washer
S = Screw
* = Lock (L),soldering (SD),shield,connector (CN), etc.

Example
- Remove ((W1)=Washer W1.
- **Remove the solder at (SD1)=Point SD1.
- **Disconnect Ⓐ =Connector Ⓐ .

(6) Numbers in this column represent the numbers of notes in the text.For example, “1” means “Note 1”.
(For parts that need phase adjustment after reassembling, refer to “2.6 MECHANISM ADJUSTMENTS”.)

(7) This column indicates required after-disassembling/-reassembling work such as phase adjustment or mechanism adjustment.

| NO. | PART NAME | | FIG. | POINT | NOTE | REMARKS |
|---|---|---|---|---|---|---|
| ① | CASSETTE HOUSING ASSY | T | Fig.2-4-3 | 3(S①),(L①a)-(L①e) | | ADJUSTMENT |
| ② | UPPER BASE ASSY | T | Fig.2-4-4 | (S②),(L②a),(L②b) | | |
| ③ | DRUM ASSY | T | | (S③a),2(S③b) | | |
| ④ | REEL DISK ASSY(SUP) | T | Fig.2-4-5 | (W④) | | |
| ⑤ | REEL DISK ASSY(TU) | T | | (W⑤) | | |
| ⑥ | REEL COVER ASSY | T | | 2(W6),(S⑥a),2(S⑥b) | | ADJUSTMENT |

(1) (2) (3) (4) (5) (6) (7)

## 2.2 JIGS AND TOOLS REQUIRED FOR DISASSEMBLY, ASSEMBLY AND ADJUSTMENT

### 2.2.1 Tools required for adjustments

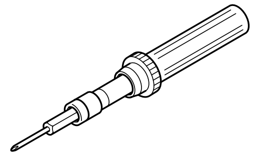
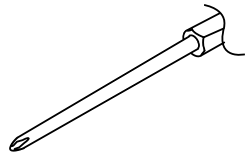
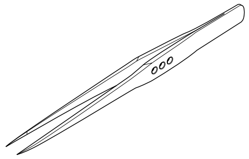
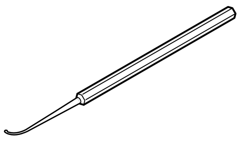
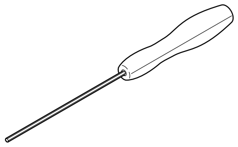
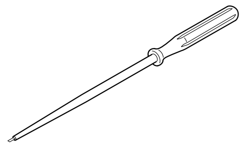
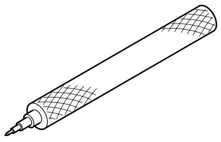
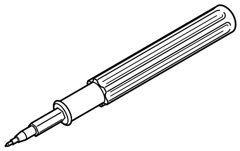
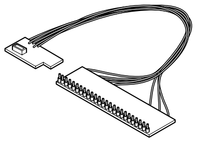
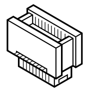
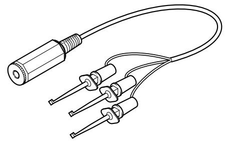
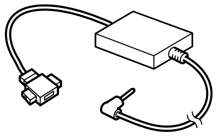
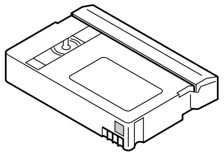
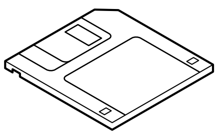
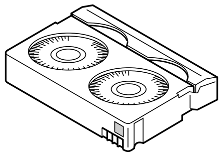
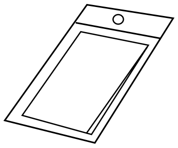
| | |
|---|---|
| 1 Torque Driver<br>YTU94088 | 2 Bit<br>YTU94088-003 |
|  |  |
| 3 Tweezers<br>P-895 | 4 Chip IC Replacement Jig<br>PTS40844-2 |
|  |  |
| 5 Guide Driver (Hexagonal)<br>D-770-1.27 | 6 Adjustment Driver<br>YTU94028 |
|  |  |
| 7 Slit Washer Installation Jig<br>YTU94121A | 8 Slit Washer Installation Jig<br>YTU94121B |
|  |  |
| 9 Jig Connector cable<br>YTU93106B | 10 Extension connector<br>YTU94145C-30 |
|  |  |
| 11 Communication cable<br>YTU93107A | 12 PC cable<br>QAM0099-002 |
|  |  |
| 13 Alignment Tape<br>MC-1 | 14 Service Support System<br>YTU94057-50 |
|  |  |
| 15 Torque Meter<br>YTU94151A | 16 Cleaning Cloth<br>KSMM-01 |
|  |  |

Table 2-2-1

1. **Torque Driver**
   Be sure to use to fastening the mechanism and exterior parts because those parts must strictly be controlled for tightening torque.
2. **Bit**
   This bit is slightly longer than those set in conventional torque drivers.
3. **Tweezers**
   To be used for removing and installing parts and wires.
4. **Chip IC replacement Jig**
   To be used for adjustment of the camera system.
5. **Guide Driver (Hexagonal)**
   To be used to turn the guide roller to adjustment of the linarity of playback envelope.
6. **Adjustment Driver**
   To be used for adjustment.
7. **Slit washer Installation Jig**
   To be used to install slit washers.
8. **Slit washer Installation Jig (NEW TYPE)**
   To be used to install slit washers.
9. **Jig Connector cable**
   Connected to CN107 of the main board and used for electrical adjustment, etc.
10. **Extension connector**
    Connect this extension connector to the connector of the jig connector cable for extending the cable connector.

    **Note:** *For supplying the power through the coupler by removing the cover (for jig), use this extension connector double for connecting the jig connector cable.*
11. **Communication cable**
    Connect the Communication cable between the PC cable and Jig connector cable when performing a PC adjustment.
12. **PC cable**
    To be used to connect the VideoMovie and a personal computer with each other when a personal computer is used for adjustment.
13. **Alignment Tape**
    To be used for check and adjustment of interchangeability of the mechanism.
14. **Service Support System**
    To be used for adjustment with a personal computer.
15. **Torque Meter**
    This is used to cheek the back tension and play torque during mechanism adjustment.
16. **Cleaning Cloth**
    Recommended cleaning cloth to wipe down the video heads, mechanism (tape transport system), optical lens surface.

## 2.3 DISASSEMBLY/ASSEMBLY OF MECHANISM ASSEMBLY

### 2.3.1 General statement

The mechanism should generally be disassembled/assembled in the C.IN mode (ASSEMBLY mode). (Refer to Fig. 2-3-1,2.)
However, when the mechanism is removed from the main body, it is set in the STOP mode. Therefore, after the mechanism is removed from the main body, supply 3 V DC to the electrode on the top of the loading motor to enter the mechanism mode into the C,IN mode compulsory.

**<Mechanism assembly/Cassette housing assembly>**

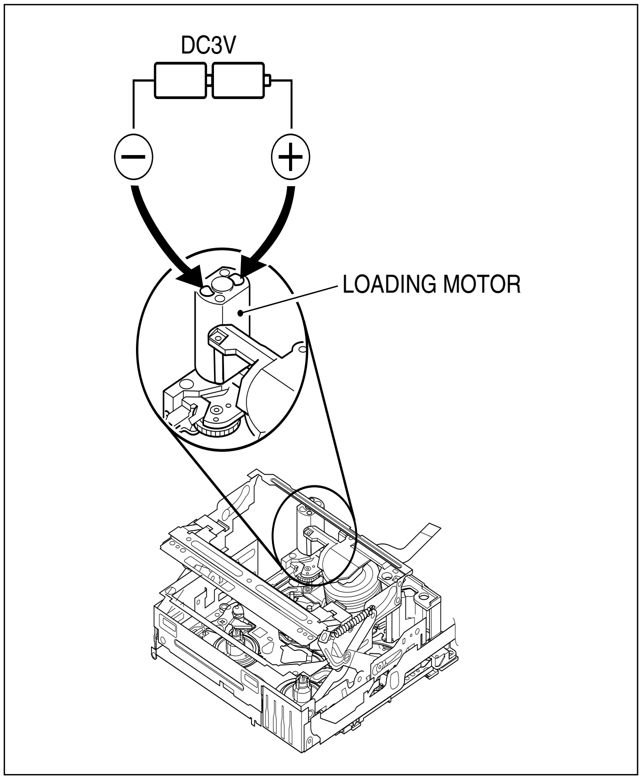


Fig. 2-3-1

**<Back side of the mechanism assembly>**

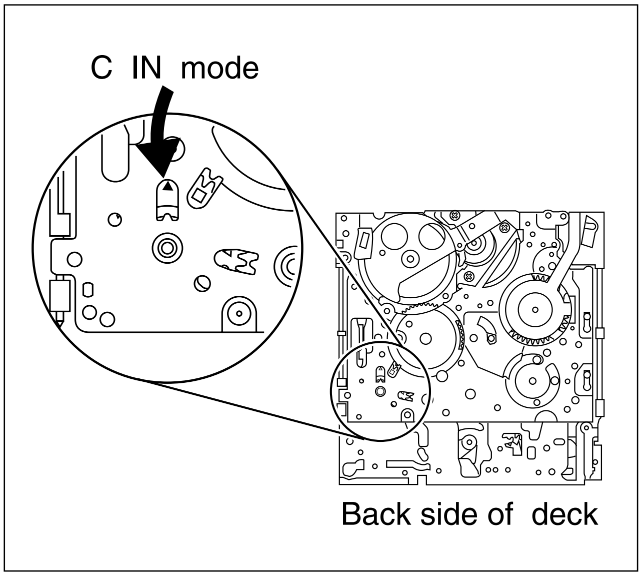


Fig. 2-3-2

### 2.3.2 Explanation of mechanism mode

The mechanism mode of this model is classified into five modes as shown in Table 2-3-1. Each mechanism mode can be distinguished from others by the relative position of "△", "○", "□" marks on the sub cam gear to the inner or outer protrusion on the main deck.
Refer to Fig. 2-3-3 to 2-3-8 below.

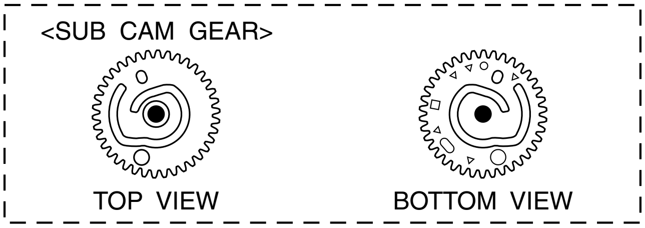


Fig. 2-3-3

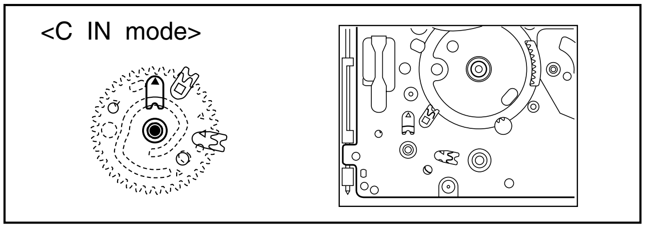


Fig. 2-3-4

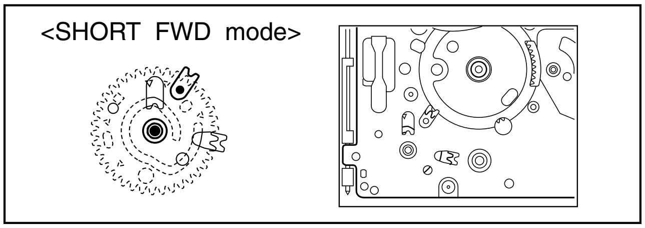


Fig. 2-3-5

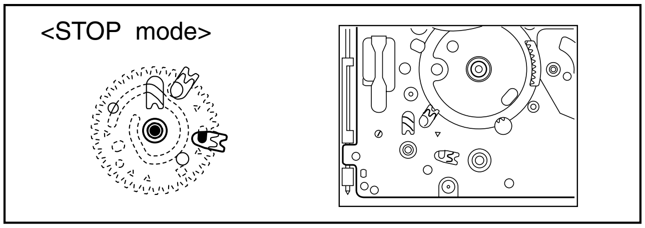


Fig. 2-3-6

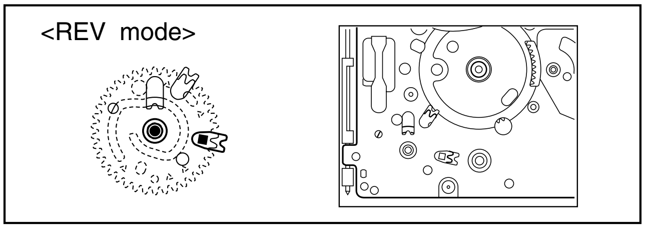


Fig. 2-3-7

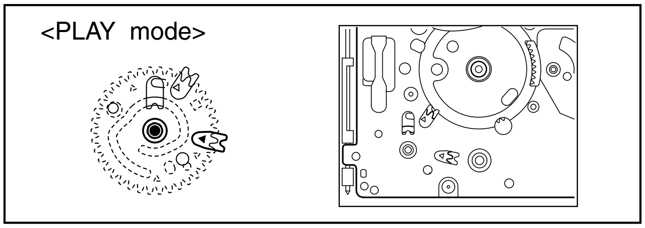


Fig. 2-3-8

## 2.3.3 Mechanism timing chart

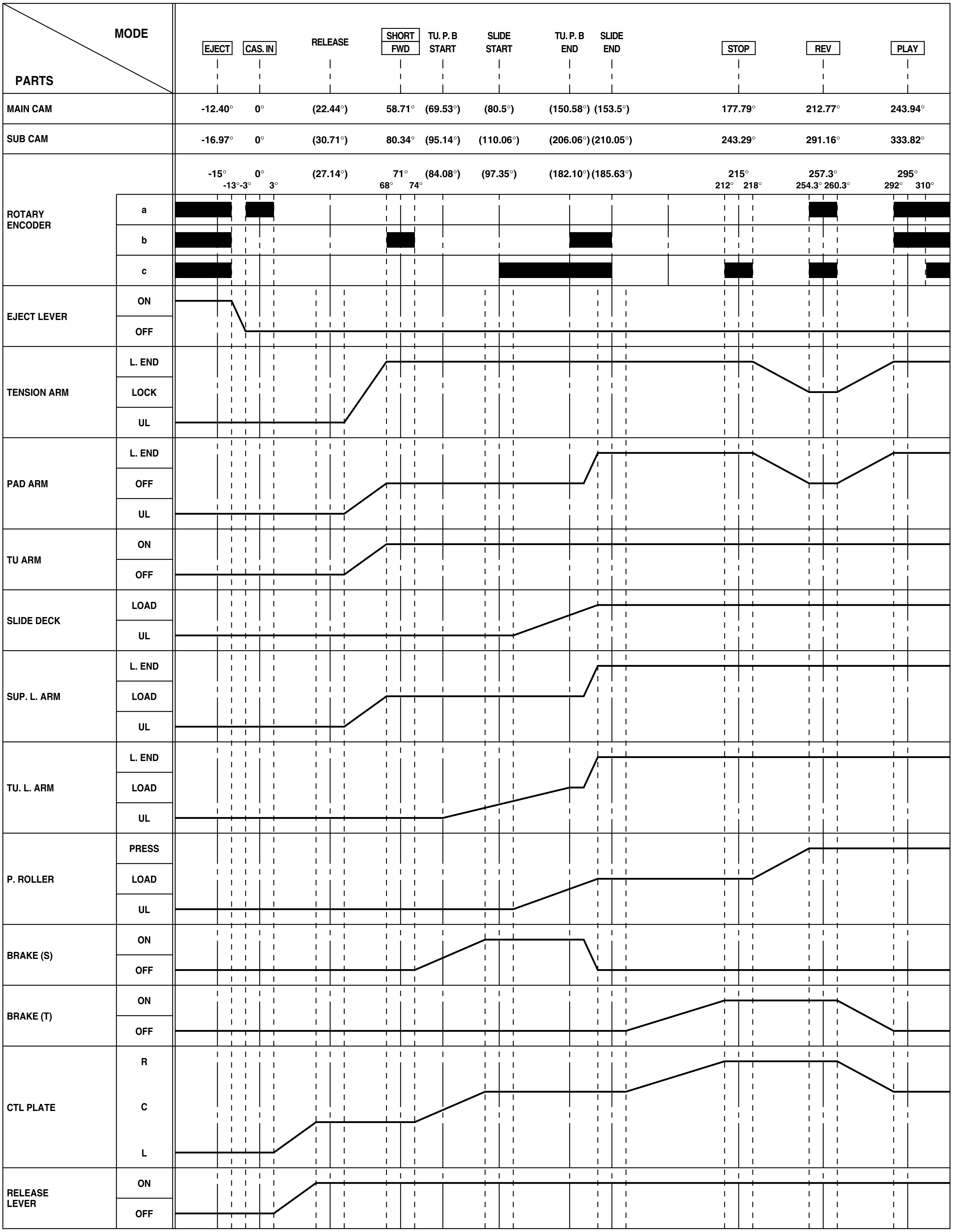

MODE
PARTS
EJECT
CAS. IN
RELEASE
SHORT
FWD
TU. P. B
START
SLIDE
START
TU. P. B
END
SLIDE
END
STOP
REV
PLAY
MAIN CAM
-12.40°
0°
(22.44°)
58.71°
(69.53°)
(80.5°)
(150.58°)
(153.5°)
177.79°
212.77°
243.94°
SUB CAM
-16.97°
0°
(30.71°)
80.34°
(95.14°)
(110.06°)
(206.06°)
(210.05°)
243.29°
291.16°
333.82°
-15°
0°
(27.14°)
71°
(84.08°)
(97.35°)
(182.10°)
(185.63°)
215°
257.3°
295°
-13°
-3°
3°
68°
74°
212°
218°
254.3°
260.3°
292°
310°
ROTARY
ENCODER
a
b
c
EJECT LEVER
ON
OFF
TENSION ARM
L. END
LOCK
UL
PAD ARM
L. END
OFF
UL
TU ARM
ON
OFF
SLIDE DECK
LOAD
UL
SUP. L. ARM
L. END
LOAD
UL
TU. L. ARM
L. END
LOAD
UL
P. ROLLER
PRESS
LOAD
UL
BRAKE (S)
ON
OFF
BRAKE (T)
ON
OFF
CTL PLATE
R
C
L
RELEASE
LEVER
ON
OFF

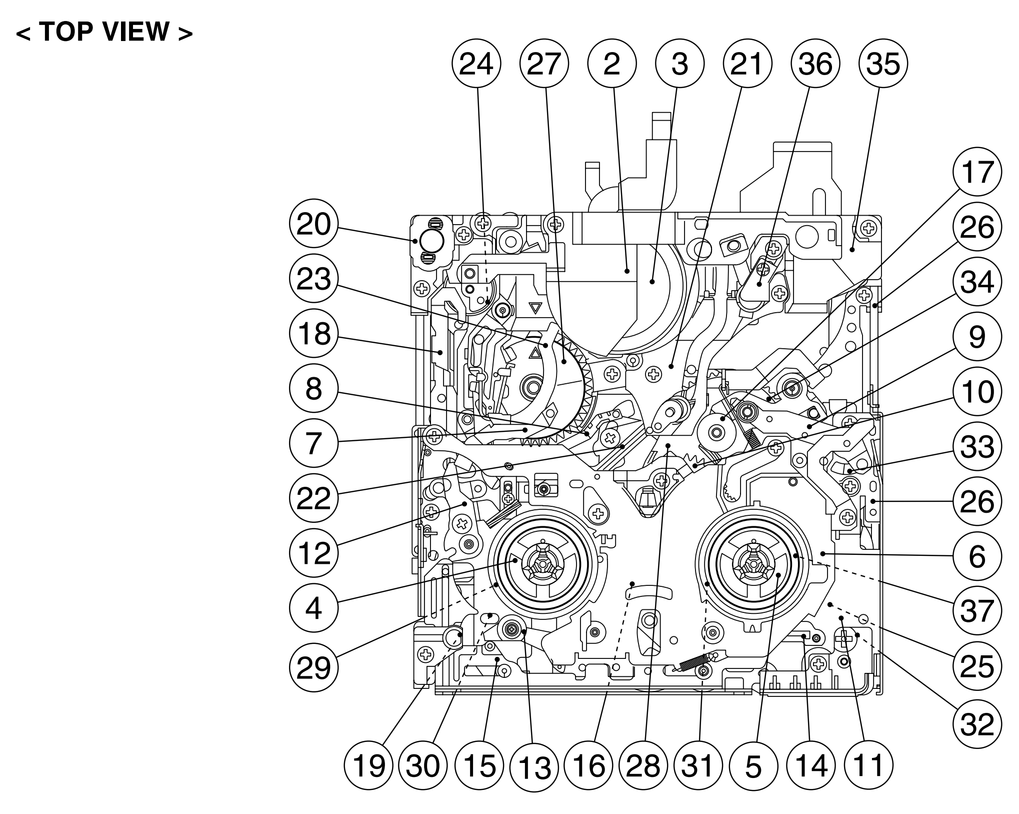
Table 2-3-1

## 2.4 DISASSEMBLING PROCEDURE TABLE

| NO. | PART NAME | | FIG. | POINT | NOTE | REMARKS |
|---|---|---|---|---|---|---|
| ① | CASSETTE HOUSING ASSY | T | Fig.2-4-3 | 3(S①),(L①a)-(L①e) | | ADJUSTMENT |
| ② | UPPER BASE ASSY | T | Fig.2-4-4 | (S②),(L②a),(L②b) | | |
| ③ | DRUM ASSY | T | | (S③a),2(S③b) | | |
| ④ | REEL DISK ASSY(SUP) | T | Fig.2-4-5 | (W④) | | |
| ⑤ | REEL DISK ASSY(TU) | T | | (W⑤) | | |
| ⑥ | REEL COVER ASSY | T | | 2(W⑥),(S⑥a),2(S⑥b) | | ADJUSTMENT |
| ⑦ | SLANT POLE ARM ASSY | T | Fig.2-4-6 | — | | ADJUSTMENT |
| ⑧ | TENSION ARM ASSY | T | | — | | ADJUSTMENT / ★ |
| ⑨ | TU ARM ASSY | T | | — | | ADJUSTMENT |
| ⑩ | SWING ARM ASSY | T | | (S⑩) | | ADJUSTMENT |
| ⑪ | SLIDE DECK ASSY | T | Fig.2-4-7a | (W⑪),2(S⑪a),(S⑪b), 2(L⑪a),2(L⑪b),(L⑪c) | | ADJUSTMENT / ★ |
| ⑫ | PAD ARM ASSY | T | Fig.2-4-7b | (P⑫),(L⑫),(W⑫) | | ADJUSTMENT / ★ |
| ⑬ | SUP BRAKE ASSY | T | | (P⑬),(L⑬),(S⑬) | | ADJUSTMENT |
| ⑭ | TU BRAKE ASSY | T | | (P⑭),(L⑭),(W⑭) | | ADJUSTMENT |
| ⑮ | TENSION CTL LEVER ASSY | T | Fig.2-4-8 | — | | ADJUSTMENT |
| ⑯ | CENTER GEAR | T | | — | | |
| ⑰ | PINCH ROLLER ARM F. ASSY | T | | (W⑰) | | |
| ⑱ | TENSION CTL PLATE ASSY | T | | — | | ADJUSTMENT |
| ⑲ | BRAKE CTL LEVER ASSY | T | | — | | ADJUSTMENT |
| ⑳ | MOTOR BRACKET ASSY | T | Fig.2-4-9 | 3(S⑳),(L⑳a),2(L⑳b) | | ADJUSTMENT |
| ㉑ | GUIDE RAIL ASSY | T | | 2(W㉑),(S㉑),2(L㉑a),(L㉑b) | | ADJUSTMENT |
| ㉒ | SLIDE LEVER 2 ASSY | T | | — | | ADJUSTMENT / ★ |
| ㉓ | LOADING PLATE ASSY | T | | (W㉓) | | ADJUSTMENT |
| ㉔ | MODE GEAR | T | | — | | |
| ㉕ | EJECT LEVER | T | | (W㉕) | | ADJUSTMENT |
| ㉖ | BASE R ASSY | T | Fig.2-4-10 | (S㉖a),(S㉖b),2(L㉖) | | ADJUSTMENT |
| ㉗ | ROTARY ENCODER | T | | 2(S㉗) | | PHASE ADJUSTMENT |
| ㉘ | GEAR COVER ASSY | T | | (S㉘a),2(S㉘b) | | |
| ㉙ | MAIN CAM ASSY | T | | — | | PHASE ADJUSTMENT |
| ㉚ | SLIDE ARM ASSY | T | Fig.2-4-11 | — | | ADJUSTMENT |
| ㉛ | CONNECT GEAR 2 | T | | — | | |
| ㉜ | SUB CAM ASSY | T | | (S㉜) | | PHASE ADJUSTMENT |
| ㉝ | CONTROL ARM ASSY | T | | — | | ADJUSTMENT |
| ㉞ | REEL GEAR 1 | T | | — | | |
| ㉟ | DRUM BASE ASSY/ CAPSTAN MOTOR | T | Fig.2-4-12 | 3(S㉟) | | ADJUSTMENT |
| ㊱ | CAPSTAN MOTOR | T | | (S㊱) | | ADJUSTMENT |
| ㊲ | MAIN DECK ASSY | T | | — | | |

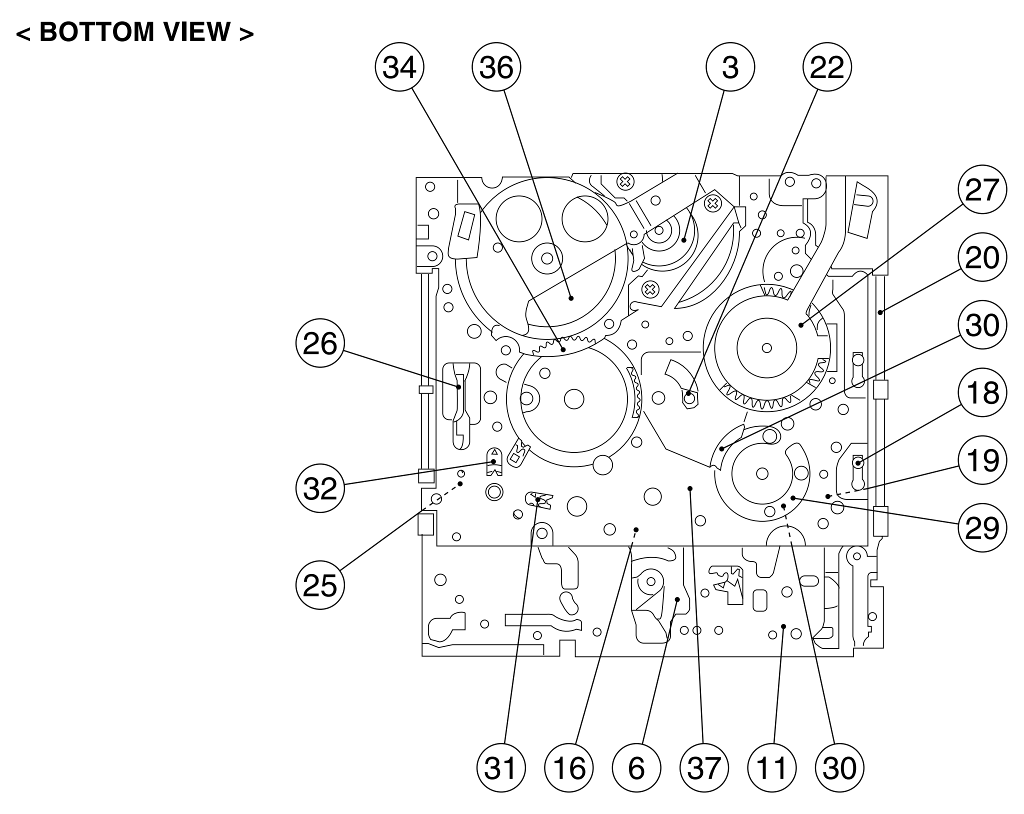
MARK: ★ After assembly, perform adjustments.

Table 2-4-1



< TOP VIEW >
24
27
2
3
21
36
35
17
26
34
9
10
33
26
6
37
25
32
20
23
18
8
7
22
12
4
29
19
30
15
13
16
28
31
5
14
11

Fig. 2-4-1



< BOTTOM VIEW >
34
36
3
22
27
20
30
18
19
29
26
32
25
31
16
6
37
11
30

Fig. 2-4-2

### 2.4.1 Disassembly/assembly

1. ① CASSETTE HOUSING ASSY

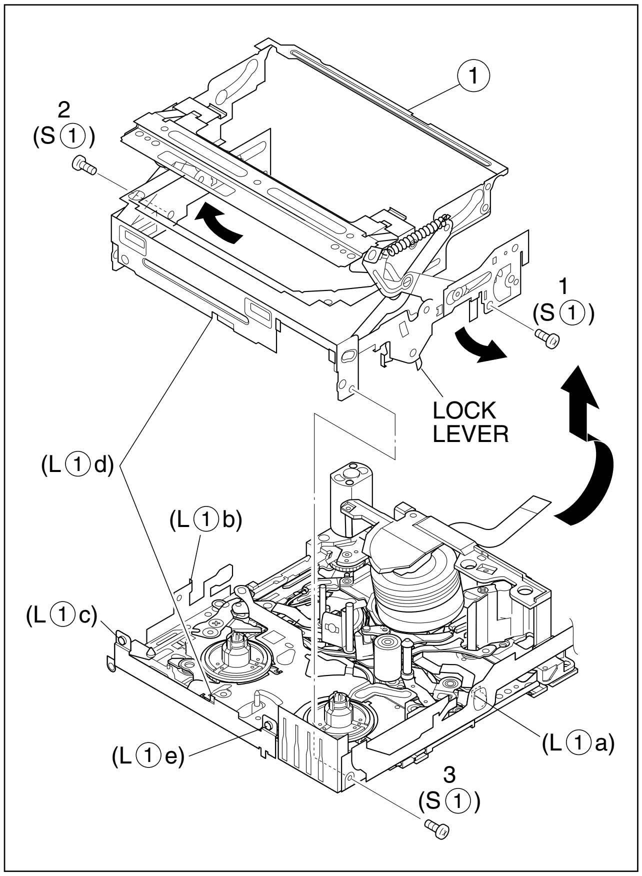

①
2
(S①)
1
(S①)
LOCK
LEVER
(L①d)
(L①b)
(L①c)
(L①a)
(L①e)
3
(S①)

Fig. 2-4-3

2. ② UPPER BASE ASSY
   ③ DRUM ASSY

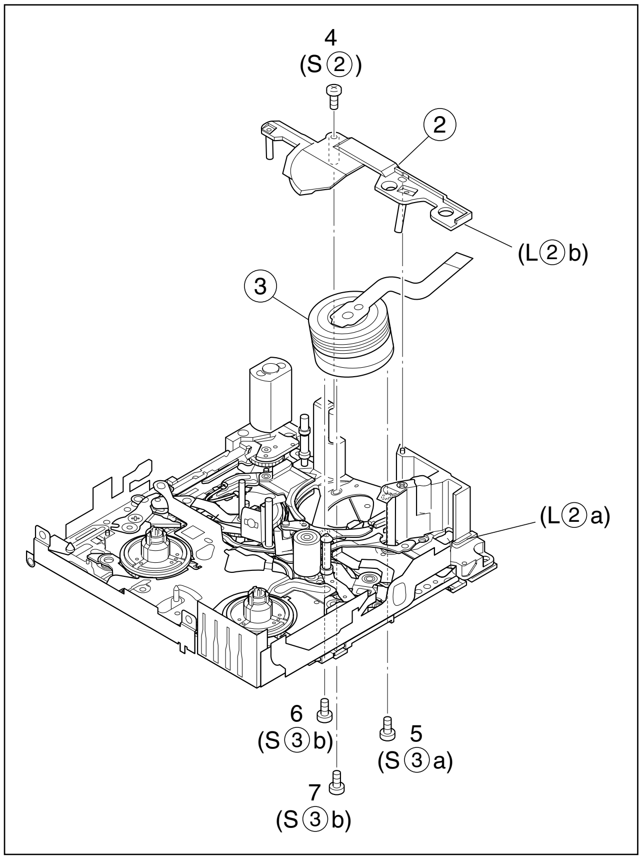

4
(S②)
②
(L②b)
③
(L②a)
6
(S③b)
5
(S③a)
7
(S③b)

Fig. 2-4-4

3. ④ REEL DISK ASSY(SUP)
   ⑤ REEL DISK ASSY(TU)
   ⑥ REEL COVER ASSY

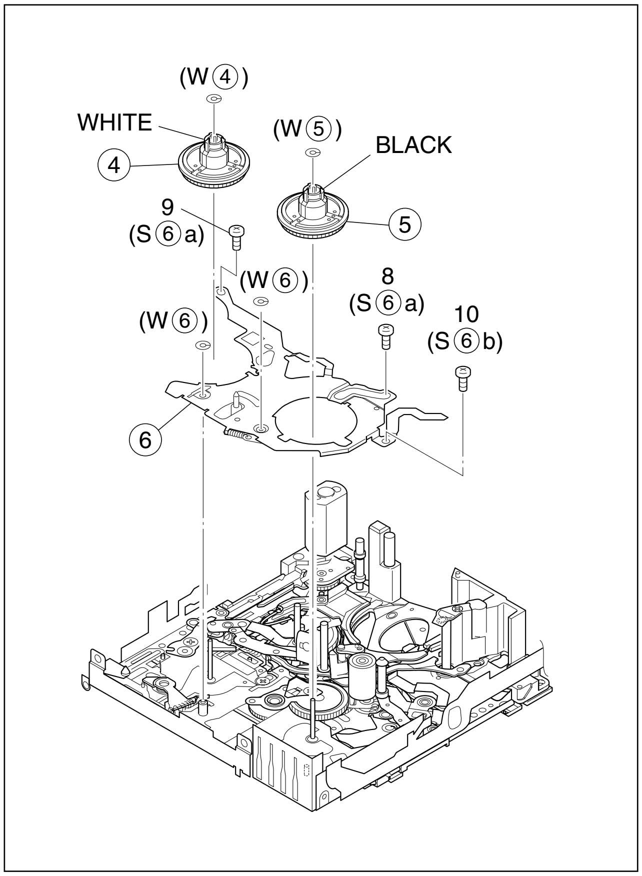

(W④)
WHITE
(W⑤)
BLACK
④
⑤
9
(S⑥a)
(W⑥)
8
(S⑥a)
(W⑥)
10
(S⑥b)
⑥

Fig. 2-4-5

4. ⑦ SLANT POLE ARM ASSY
   ⑧ TENSION ARM ASSY
   ⑨ TU ARM ASSY
   ⑩ SWING ARM ASSY

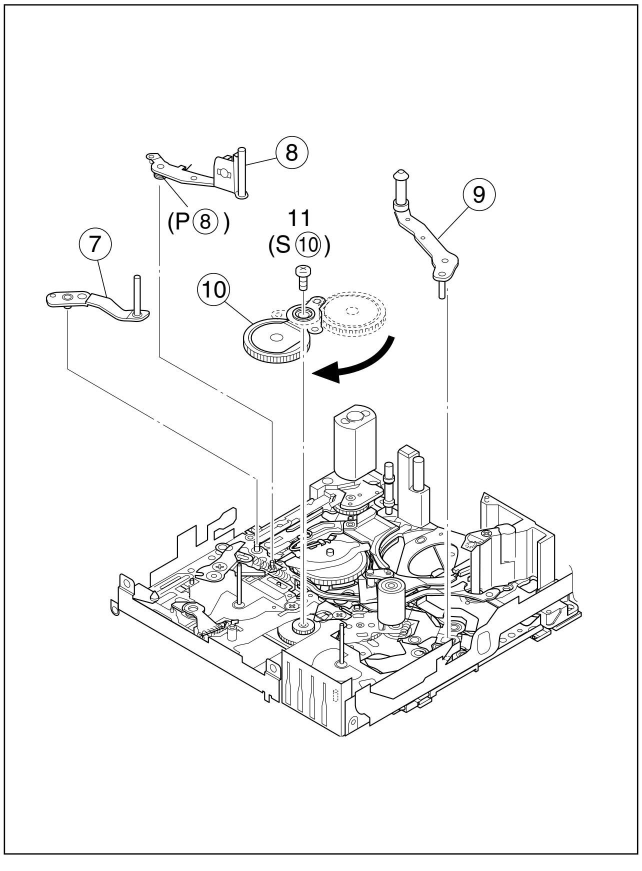

⑧
⑨
(P⑧)
11
(S⑩)
⑦
⑩

Fig. 2-4-6

5. ⑪ SLIDE DECK ASSY

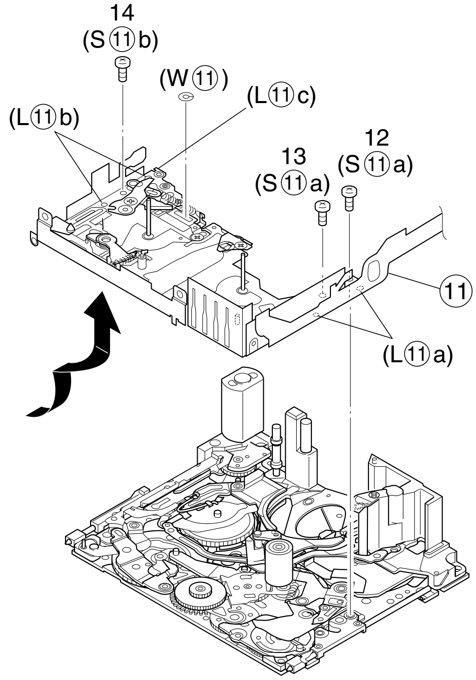

14
(S⑪b)
(W⑪)
(L⑪c)
(L⑪b)
12
(S⑪a)
13
(S⑪a)
⑪
(L⑪a)

Fig. 2-4-7a

6. ⑫ PAD ARM ASSY
⑬ SUP BRAKE ASSY
⑭ TU BRAKE ASSY

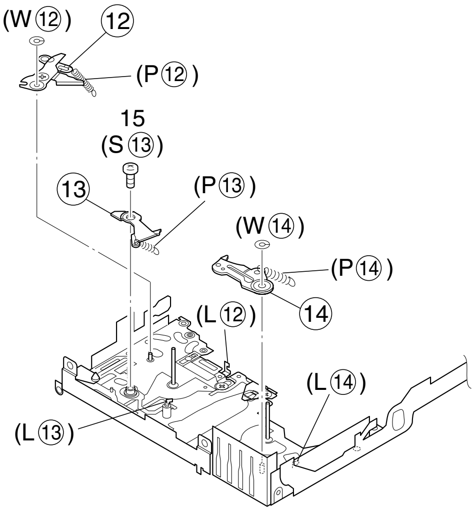

(W⑫)
⑫
(P⑫)
15
(S⑬)
⑬
(P⑬)
(W⑭)
(P⑭)
⑭
(L⑫)
(L⑭)
(L⑬)

Fig. 2-4-7b

7. ⑮ TENSION CTL LEVER ASSY
⑯ CENTER GEAR
⑰ PINCH ROLLER ARM F. ASSY
⑱ TENSION CTL PLATE ASSY
⑲ BRAKE CTL LEVER ASSY

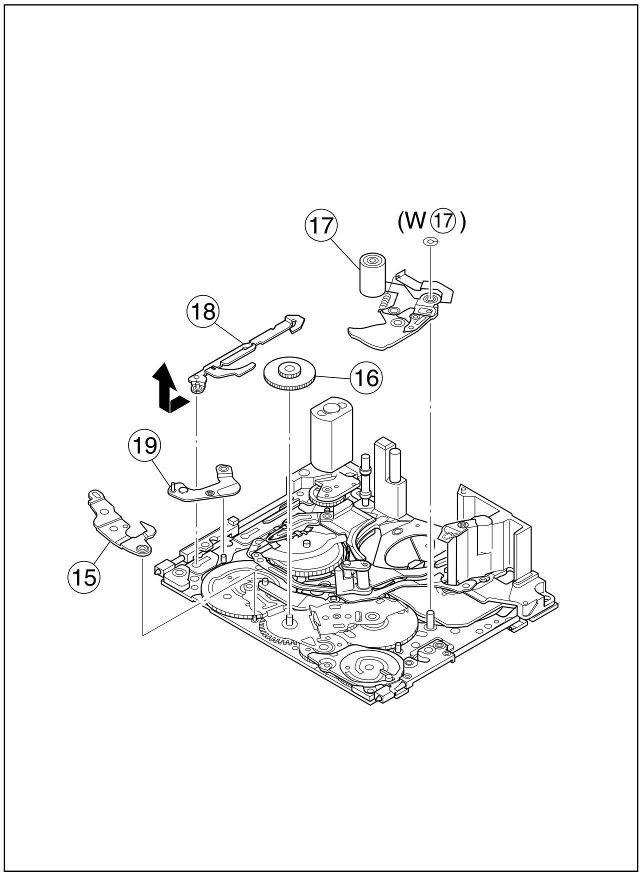


Fig. 2-4-8

8. ⑳ MOTOR BRACKET ASSY
㉑ GUIDE RAIL ASSY
㉒ SLIDE LEVER 2 ASSY
㉓ LOADING PLATE ASSY
㉔ MODE GEAR
㉕ EJECT LEVER

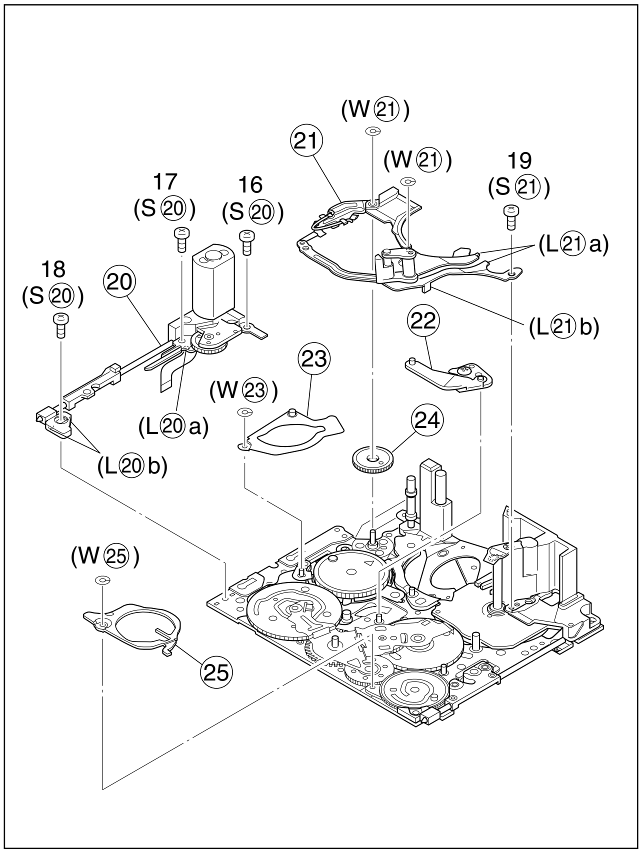

(W㉑)
㉑
(W㉑)
19
(S㉑)
17
(S⑳)
16
(S⑳)
(L㉑a)
18
(S⑳)
⑳
(L㉑b)
㉒
㉓
(W㉓)
(L⑳a)
㉔
(L⑳b)
(W㉕)
㉕

Fig. 2-4-9

9. ㉖ BASE R ASSY
   ㉗ ROTARY ENCODER
   ㉘ GEAR COVER ASSY
   ㉙ MAIN CAM ASSY

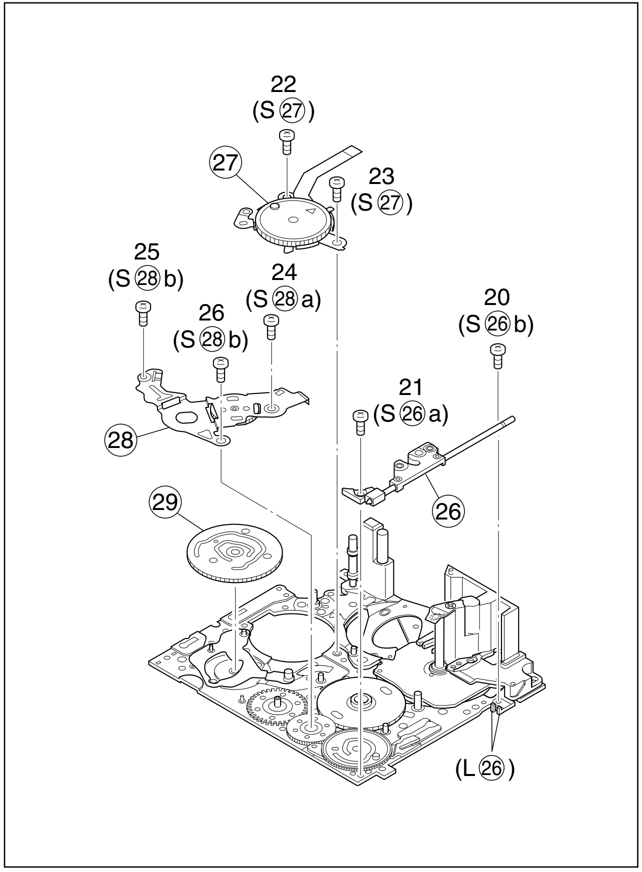

22
(S ㉗)
㉗
23
(S ㉗)
25
(S ㉘b)
24
(S ㉘a)
26
(S ㉘b)
20
(S ㉖b)
21
(S ㉖a)
㉘
㉙
㉖
(L ㉖)

Fig. 2-4-10

10. ㉚ SLIDE ARM ASSY
    ㉛ CONNECT GEAR 2
    ㉜ SUB CAM ASSY
    ㉝ CONTROL ARM ASSY
    ㉞ REEL GEAR 1

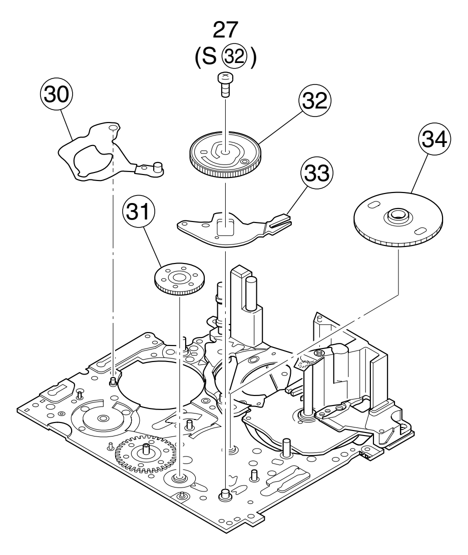


Fig. 2-4-11

11. ㉟ DRUM BASE ASSY/CAPSTAN MOTOR
㊱ CAPSTAN MOTOR
㊲ MAIN DECK ASSY

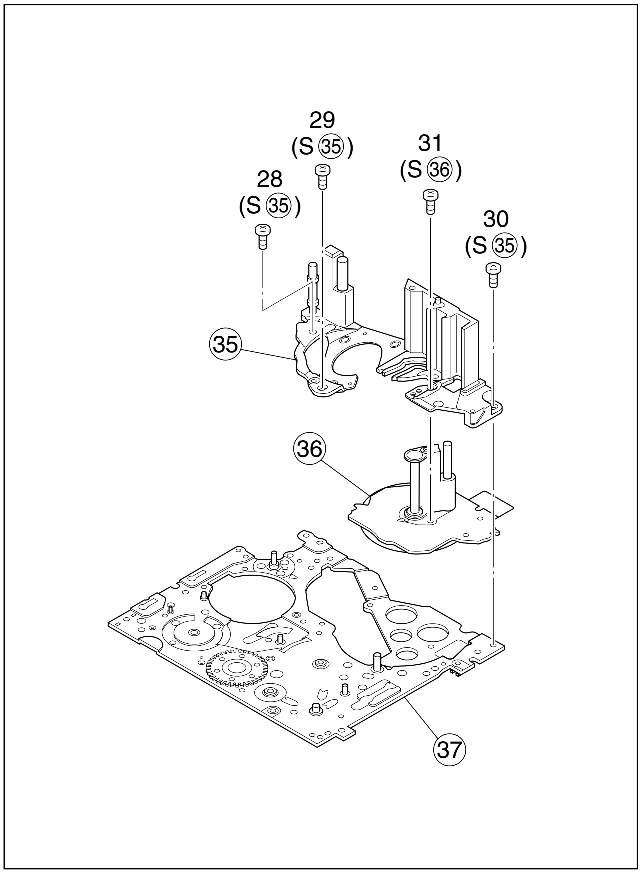
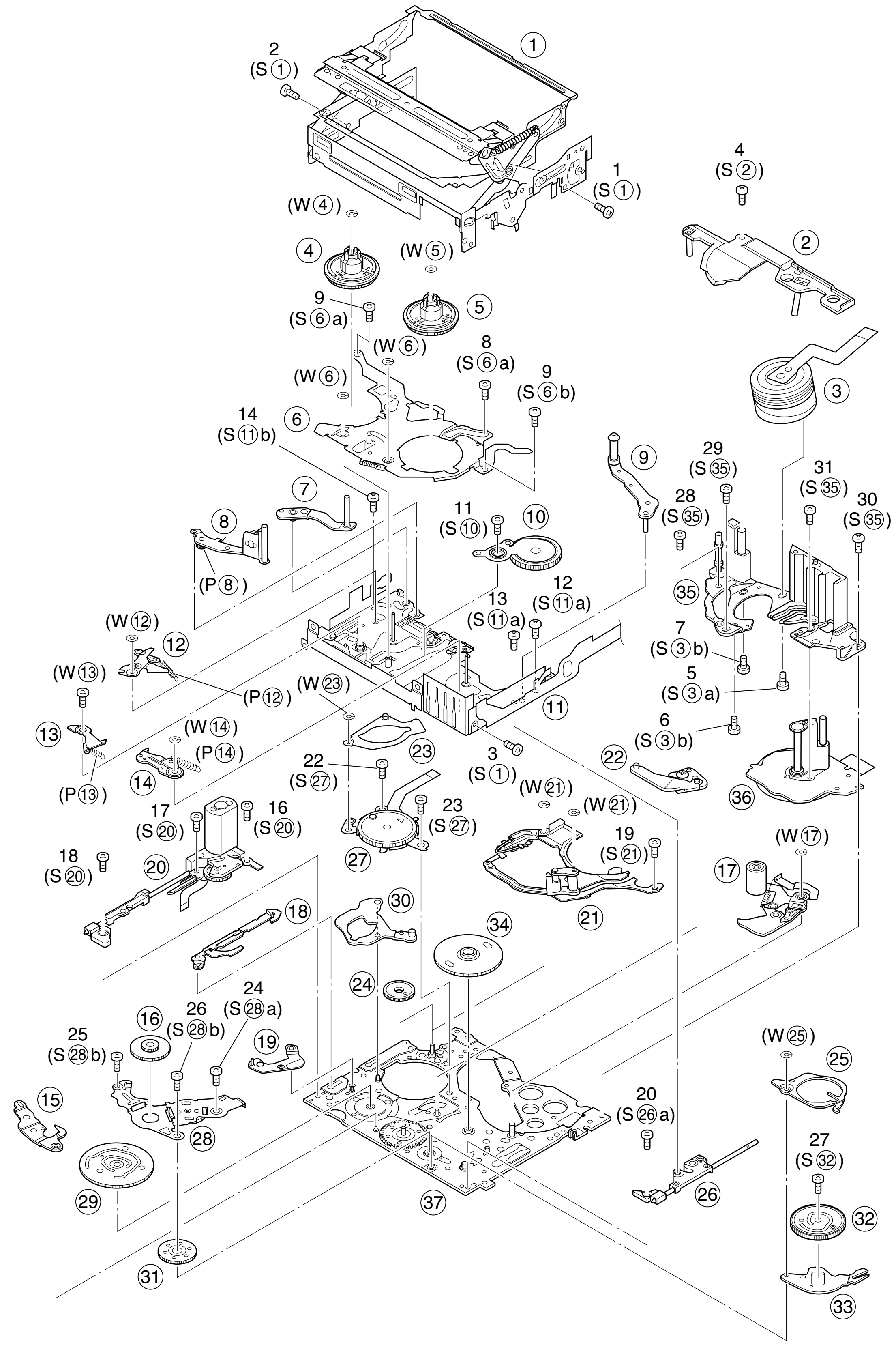

29
(S ㉟)
31
(S ㊱)
28
(S ㉟)
30
(S ㉟)
㉟
㊱
㊲

Fig. 2-4-12

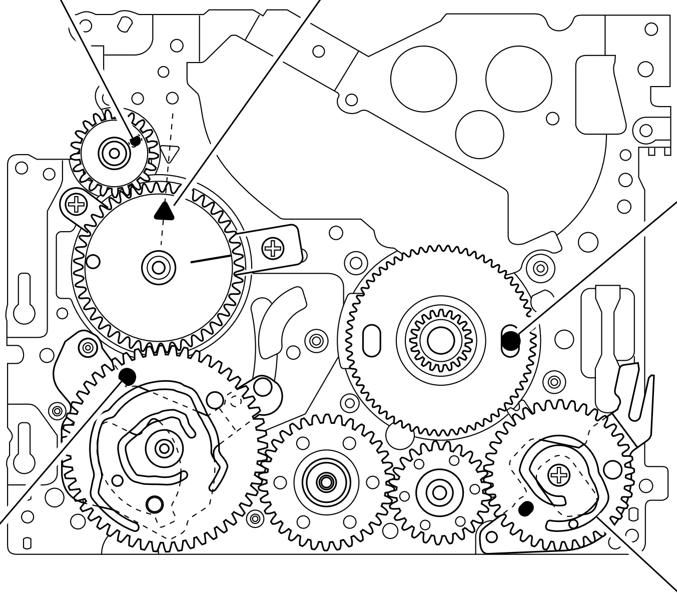
### 2.4.2 List of procedures for disassembly



2 (S①)
①
4 (S②)
1 (S①)
(W④)
②
④
(W⑤)
9 (S⑥a)
⑤
(W⑥)
8 (S⑥a)
(W⑥)
9 (S⑥b)
③
14 (S⑪b)
⑥
29 (S㉟)
⑨
31 (S㉟)
⑦
11 (S⑩)
⑩
28 (S㉟)
30 (S㉟)
⑧
(P⑧)
12 (S⑪a)
13 (S⑪a)
㉟
(W⑫)
⑫
7 (S③b)
(W⑬)
5 (S③a)
(W㉓)
(P⑫)
⑪
6 (S③b)
(W⑭)
(P⑭)
⑬
㉓
3 (S①)
㉒
22 (S㉗)
⑭
(W㉑)
(P⑬)
(W㉑)
㊱
17 (S⑳)
16 (S⑳)
23 (S㉗)
19 (S㉑)
(W⑰)
18 (S⑳)
⑳
㉗
⑰
㉚
⑱
㉞
㉑
㉔
24 (S㉘a)
26 (S㉘b)
⑯
25 (S㉘b)
⑲
(W㉕)
㉕
⑮
20 (S㉖a)
㉘
27 (S㉜)
㉙
㊲
㉖
㉜
㉛
㉝

Fig. 2-4-13

## 2.5 CHECKUP AND ADJUSTMENT OF MECHANISM PHASE



**㉔ MODE GEAR**
Align the MODE GEAR with the Main Deck Assembly hole.

**Note:**
The MODE GEAR may be displaced during the mechanism operation, however it can be checked from the rear and realigned during manual assembly.

**㉗ ROTARY ENCODER**
Mount the ROTARY ENCORDER by aligning its mark (△) and the mark (▽) of the Main Deck Assembly.

**Note:**
Be careful when handling the FPC during mounting.

**㉞ REEL GEAR 1**
Align the REEL GEAR 1 with the Main Deck Assembly hole.

**Note:**
The REEL GEAR 1 may be displaced during mechanism operation, however this can be checked from the rear and realigned during manual assembly.

**㉙ MAIN CAM ASSY/ ㉚ SLIDE ARM ASSY**
When mounting the SLIDE ARM ASSY align it with the Main Deck Assembly and MAIN CAM ASSY holes.

**Note:**
During the mounting procedure, make sure that the ㉜. SUB CAM ASSY is in the correct mounting position.

**㉜ SUB CAM ASSY/ ㉝ CONTROL ARM ASSY**
Mount the SUB CAM ASSY hole to align with the CONTROL ARM ASSY and Main Deck Assembly holes and then tighten them all together with a screw.
The screw tightening torque should be 0.039 N•m (0.4 Kgf•cm)

**Note:**
When mounting it, make sure that the ㉙ MAIN CAM ASSY is in the correct mounting position.

Fig. 2-5-1

## 2.6 MECHANISM ADJUSTMENTS

### 2.6.1 Adjustment of the slide guide plate

Use Fig. 2-6-1 as the reference unless otherwise specified.

1. Set the PLAY mode.
   See Fig. 2-3-8.
2. Loosen the screws Ⓐ,Ⓑ).
3. With the Main Deck Assembly and Slide Deck Assembly pushed inside the unit, tighten the screws (Ⓐ,Ⓑ) while applying pressure on the slit washers of the slide guide plate.
   The pressure applied should be enough to enable utilization of the rebounding force of the springs.
   The tightening torque should be 0.069 N•m (0.7 kgf•cm).
4. Check the operation.
   Repeat unloading and loading several times and make sure that these operations can be performed smoothly without producing rattles.

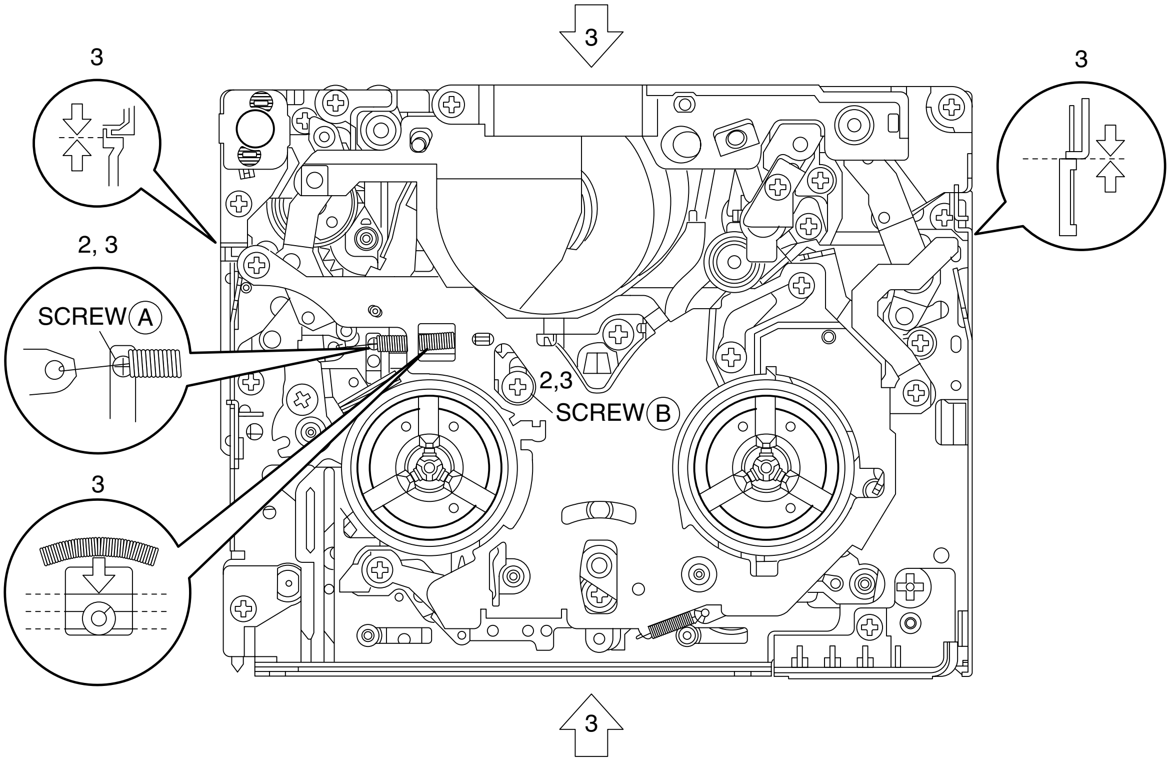


Fig. 2-6-1

### 2.6.2 Adjustment of the Tension Arm and Pad Arm Assemblies

Use Fig. 2-6-2 as the reference unless otherwise specified.

1. Set the PLAY mode.
   Se Fig. 2-3-8.
2. Loosen the screw Ⓐ.
3. With the take-up side at the bottom, align the extreme end of the Tension Arm Assembly with the crossed grooves on the screw Ⓑ that retains the Loading Motor Assembly and then tighten the screw Ⓐ.
   The tightening torque should be 0.069 N•m (0.7 kgf•cm).
4. Check the operation.
   Repeat unloading and loading several times and make sure that the Tension Arm Assembly is located within the normal range.

   **Note :** *With the above checking method, a Torque Meter is not used.*
   *When a Torque meter is used, the following are the reference values:*

   Back Tension : 2.0 to 6.0 g•cm
   Play Torque : 8.3 to 12.5 g•cm

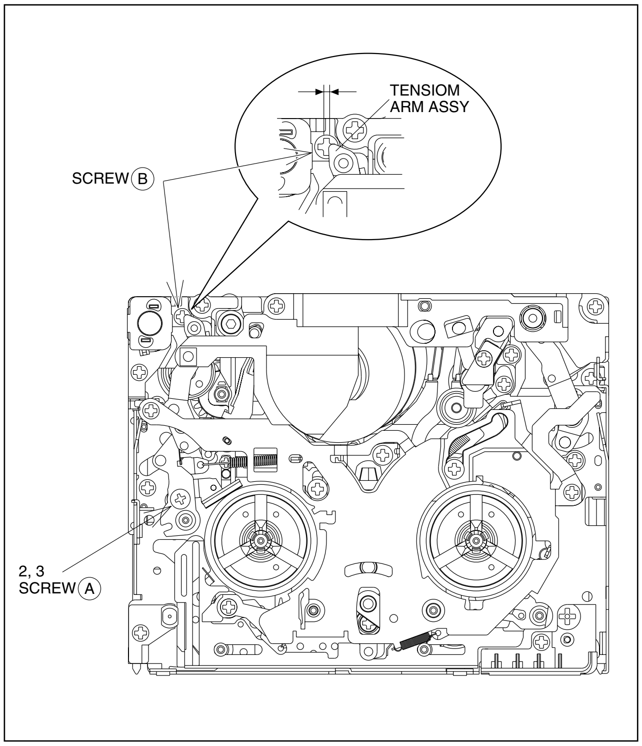


Fig. 2-6-2

### 2.6.3 Adjustment of the Slide Lever 2

Use Fig. 2-6-3 as the reference unless otherwise specified.

1. Set the C IN mode.
   See Fig. 2-3-4.
2. Loosen the screw Ⓐ.
3. Set the Main Deck and Slide Deck Assemblies apart so that they do not rattle, then tighten the screw Ⓐ by screwing it fully toward the Drum Assembly.
   The tightening torque should be 0.069 N•m (0.7 kgf•cm).
4. Check the operation.
   Repeat unloading and loading several times and make sure that these operations can be performed smoothly without producing rattles.

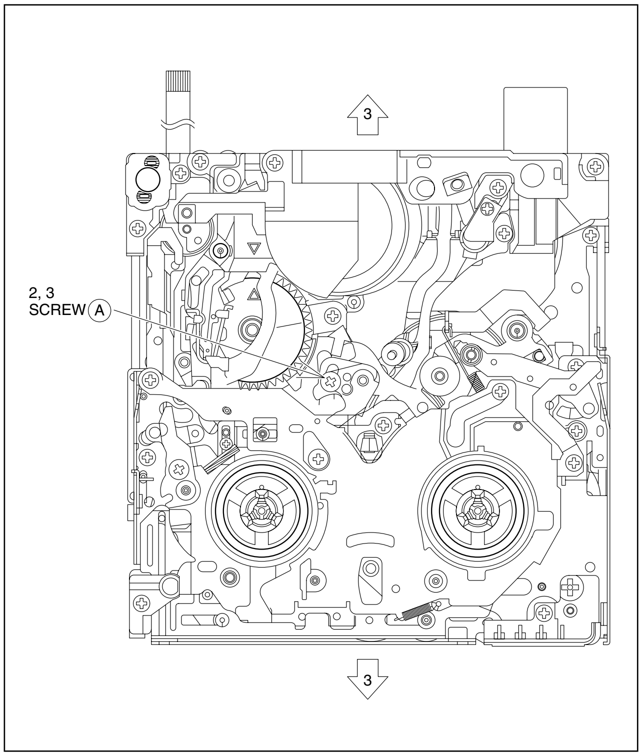
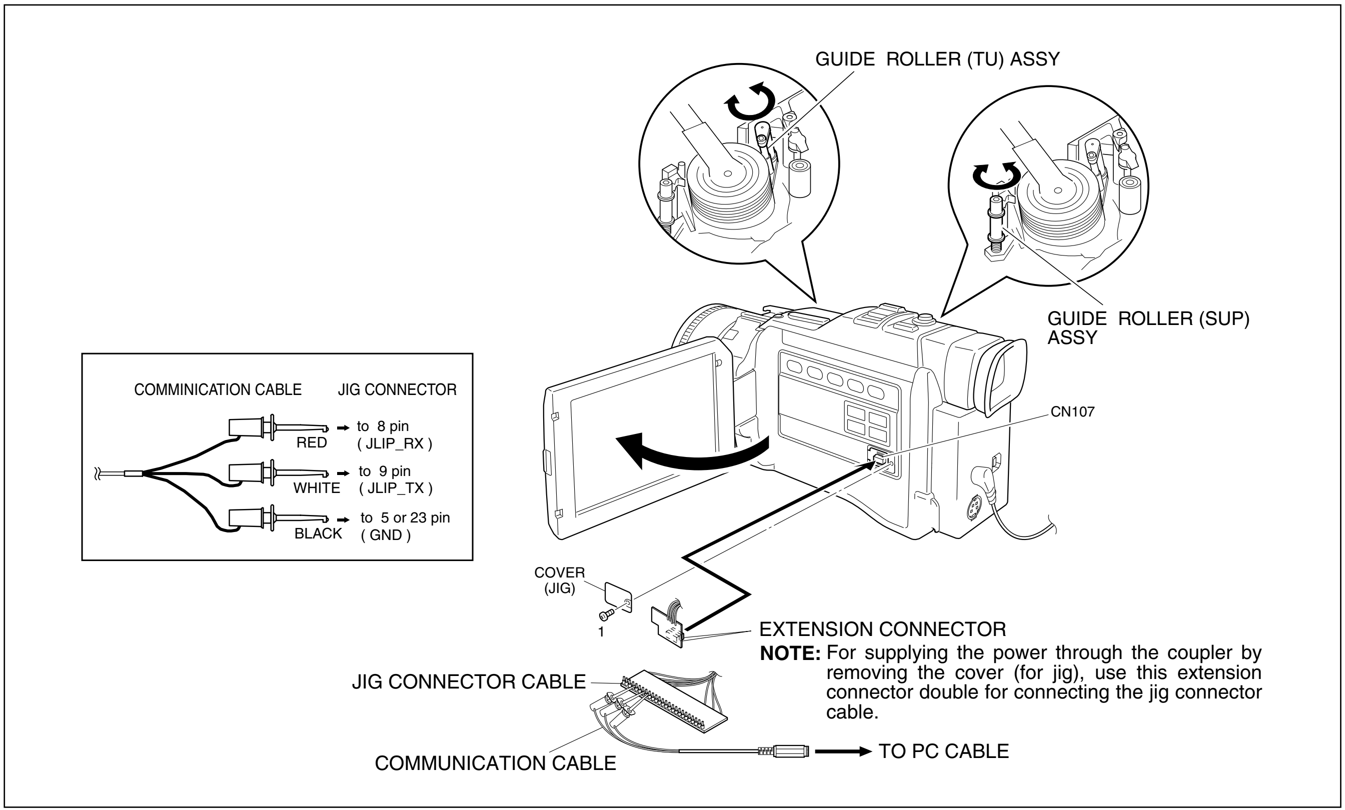


Fig. 2-6-3

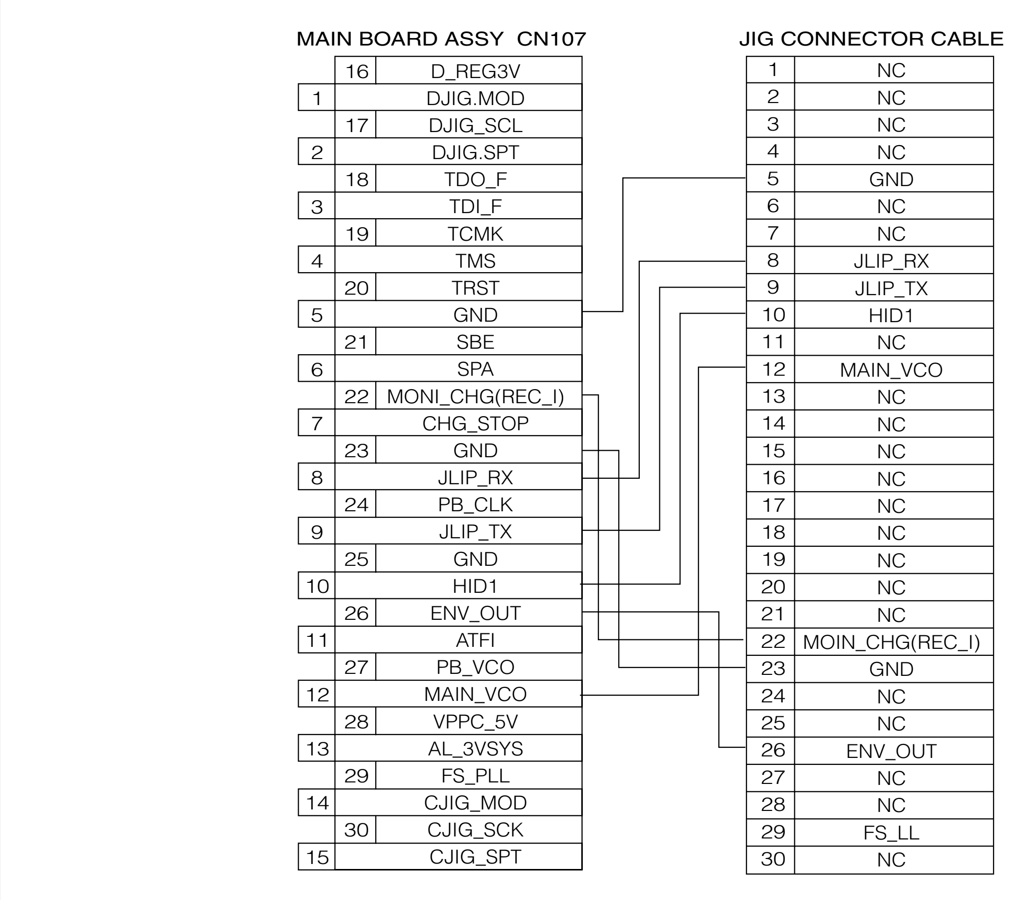
## 2.7 JIG CONNECTOR CABLE CONNECTION

Remove one screw (1) first and the cover (JIG) next.


GUIDE ROLLER (TU) ASSY
GUIDE ROLLER (SUP) ASSY
CN107
COMMINICATION CABLE
JIG CONNECTOR
RED
to 8 pin ( JLIP_RX )
WHITE
to 9 pin ( JLIP_TX )
BLACK
to 5 or 23 pin ( GND )
COVER (JIG)
1
EXTENSION CONNECTOR
JIG CONNECTOR CABLE
COMMUNICATION CABLE
TO PC CABLE

**NOTE:** For supplying the power through the coupler by removing the cover (for jig), use this extension connector double for connecting the jig connector cable.

Fig. 2-7-1



MAIN BOARD ASSY CN107

| | |
|---|---|
| 16 | D_REG3V |
| 1 | DJIG.MOD |
| 17 | DJIG_SCL |
| 2 | DJIG.SPT |
| 18 | TDO_F |
| 3 | TDI_F |
| 19 | TCMK |
| 4 | TMS |
| 20 | TRST |
| 5 | GND |
| 21 | SBE |
| 6 | SPA |
| 22 | MONI_CHG(REC_I) |
| 7 | CHG_STOP |
| 23 | GND |
| 8 | JLIP_RX |
| 24 | PB_CLK |
| 9 | JLIP_TX |
| 25 | GND |
| 10 | HID1 |
| 26 | ENV_OUT |
| 11 | ATFI |
| 27 | PB_VCO |
| 12 | MAIN_VCO |
| 28 | VPPC_5V |
| 13 | AL_3VSYS |
| 29 | FS_PLL |
| 14 | CJIG_MOD |
| 30 | CJIG_SCK |
| 15 | CJIG_SPT |

JIG CONNECTOR CABLE

| | |
|---|---|
| 1 | NC |
| 2 | NC |
| 3 | NC |
| 4 | NC |
| 5 | GND |
| 6 | NC |
| 7 | NC |
| 8 | JLIP_RX |
| 9 | JLIP_TX |
| 10 | HID1 |
| 11 | NC |
| 12 | MAIN_VCO |
| 13 | NC |
| 14 | NC |
| 15 | NC |
| 16 | NC |
| 17 | NC |
| 18 | NC |
| 19 | NC |
| 20 | NC |
| 21 | NC |
| 22 | MOIN_CHG(REC_I) |
| 23 | GND |
| 24 | NC |
| 25 | NC |
| 26 | ENV_OUT |
| 27 | NC |
| 28 | NC |
| 29 | FS_LL |
| 30 | NC |

Fig. 2-7-2

### 2.8 SERVICE NOTE

Use the following chart to manage mechanism parts that are removed for disassembling the mechanism.

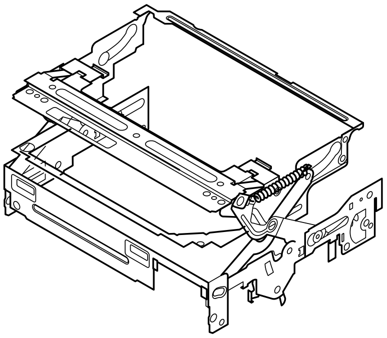
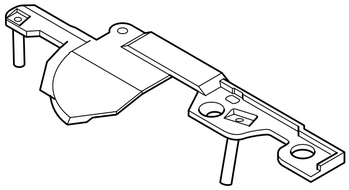
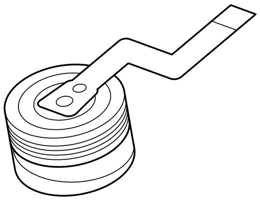
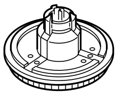
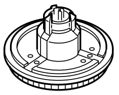
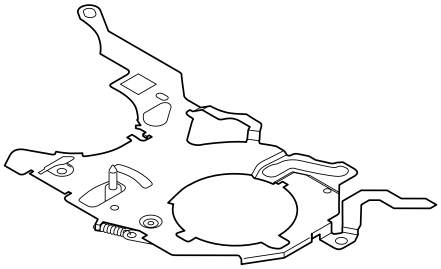
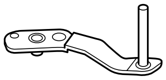
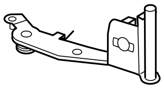
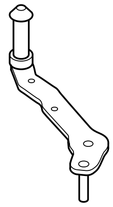
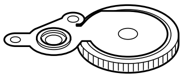
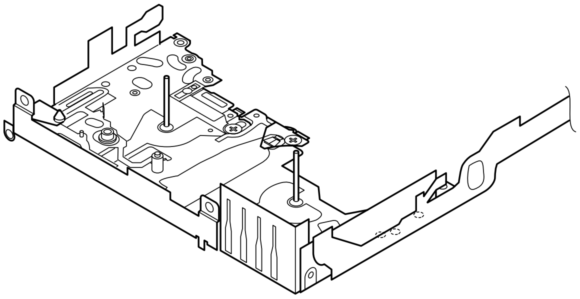
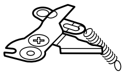
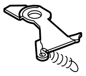
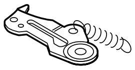
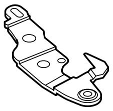
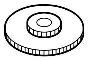
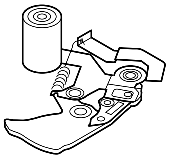
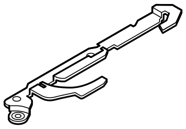
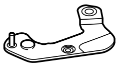
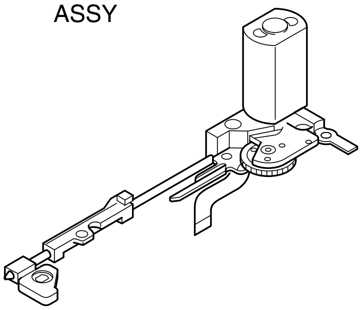
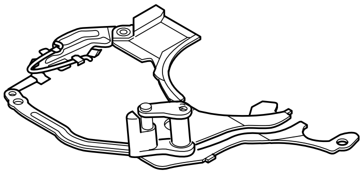
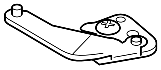
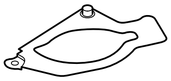
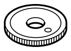
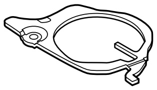
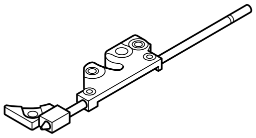
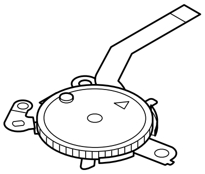
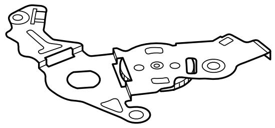
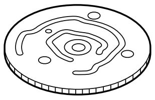
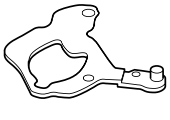
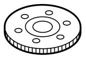
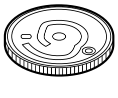
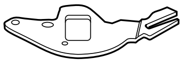
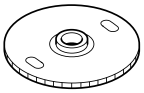
| Fig. | Part |
|---|---|
| 2-4-3 | ① CASSETTE HOUSING ASSY  |
| 2-4-4 | ② UPPER BASE ASSY  |
| 2-4-4 | ③ DRUM ASSY  |
| 2-4-5 | ④ REEL DISK ASSY(SUP)  |
| 2-4-5 | ⑤ REEL DISK ASSY(TU)  |
| 2-4-5 | ⑥ REEL COVER ASSY  |
| 2-4-6 | ⑦ SLANT POLE ARM ASSY  |
| 2-4-6 | ⑧ TENSION ARM ASSY  |
| 2-4-6 | ⑨ TU ARM ASSY  |
| 2-4-6 | ⑩ SWING ARM ASSY  |
| 2-4-7a | ⑪ SLIDE DECK ASSY  |
| 2-4-7b | ⑫ PAD ARM ASSY  |
| 2-4-7b | ⑬ SUP BRAKE ASSY  |
| 2-4-7b | ⑭ TU BRAKE ASSY  |

Table 2-8-1a

| | | | | | |
|---|---|---|---|---|---|
| Fig.<br>2-4-8 | ⑮ TENSION CTL LEVER ASSY<br> | ⑯ CENTER GEAR<br> | ⑰ PINCH ROLLER ARM F. ASSY<br> | ⑱ TENSION CTL PLATE ASSY<br> | ⑲ BRAKE CTL LEVER ASSY<br> |

| | | | | |
|---|---|---|---|---|
| Fig.<br>2-4-9 | ⑳ MOTOR BRACKET ASSY<br> | ㉑ GUIDE RAIL ASSY<br> | ㉒ SLIDE LEVER 2 ASSY<br> | ㉓ LOADING PLATE ASSY<br> |
| | | | ㉔ MODE GEAR<br> | ㉕ EJECT LEVER<br> |

| | | | | |
|---|---|---|---|---|
| Fig.<br>2-4-10 | ㉖ BASE R ASSY<br> | ㉗ ROTARY ENCODER<br> | ㉘ GEAR COVER ASSY<br> | ㉙ MAIN CAM ASSY<br> |

| | | | | | |
|---|---|---|---|---|---|
| Fig.<br>2-4-11 | ㉚ SLIDE ARM ASSY<br> | ㉛ CONNECT GEAR 2<br> | ㉜ SUB CAM ASSY<br> | ㉝ CONTROL ARM ASSY<br> | ㉞ REEL GEAR 1<br> |

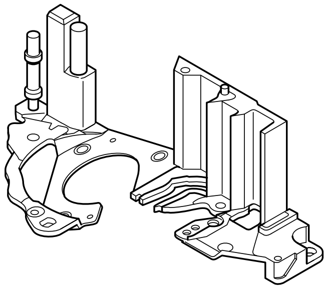
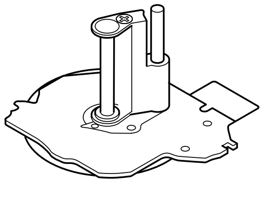
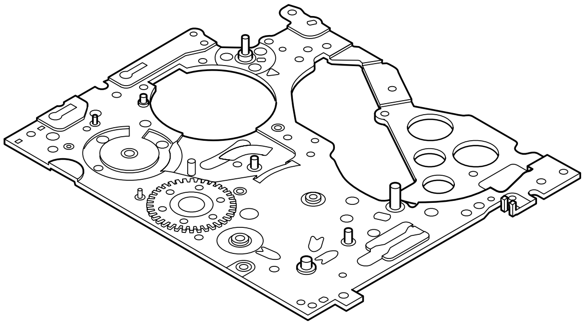
| | | | |
|---|---|---|---|
| Fig.<br>2-4-12 | ㉟ DRUM BASE ASSY<br> | ㊱ CAPSTAN MOTOR<br> | ㊲ MAIN DECK ASSY<br> |

Table 2-8-1b

# SECTION 3
# ELECTRICAL ADJUSTMENT

## 3.1 PRECAUTION

### 1. Precaution

Both the camera and deck sections of this model needs a personal computer for adjustment except simple adjustment with potentiometers. If some of the following parts is replaced for repair or other reason, the repaired set must be adjusted with a personal computer.

- OP block
- $E^2$PROM (IC1003 of MAIN board)
- MONITOR
- $E^2$PROM (IC7302 of MONITOR board)

In the event of malfunction with electrical circuits, trouble-shooting with the aid of proper test instruments most be done first, and then commence necessary repair, replacement and adjustment, etc.

1. In case of wiring to chip test points for measurement, use IC clips, etc. to avoid any stress.
2. Since connectors are fragile, carefully handle them in disconnecting and connecting.
3. Shortcircuit between operation un it and DECK chassis.

### 2. Required test equipment

1. Color TV monitor.
2. AC power adapter/charger
3. Oscilloscope (dual-trace type, observable 100 MHz or higher frequency)

**Note** : *It is recommended to use one observable 300 MHz or higher frequency.*

4. Digital voltmeter
5. Frequency counter (with threshold level adjuster)
6. Personal computer

### 3. Tools required for adjustments

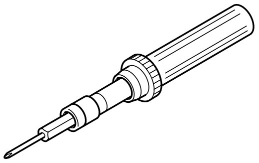
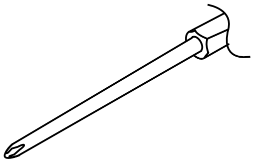
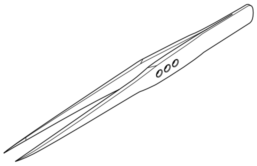
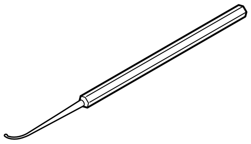
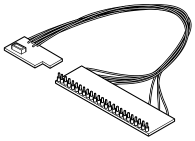
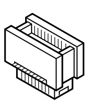
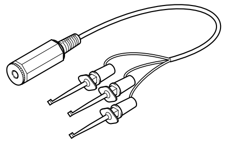
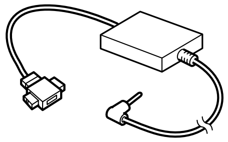
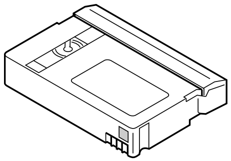
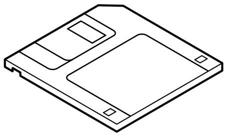
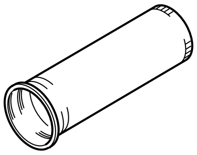
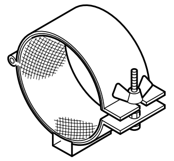
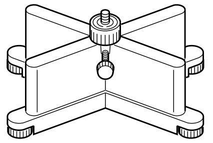
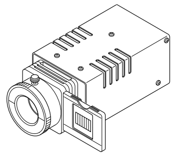
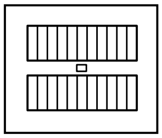
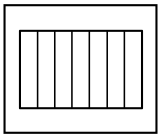
| | |
|---|---|
| 1 Torque Driver<br>YTU94088 | 2 Bit<br>YTU94088-003 |
|  |  |
| 3 Tweezers<br>P-895 | 4 Chip IC Replacement Jig<br>PTS40844-2 |
|  |  |
| 5 Jig Connector Cable<br>YTU93106B | 6 Extension connector<br>YTU94145C-30 |
|  |  |
| 7 Communication Cable<br>YTU93107A | 8 PC Cable<br>QAM0099-002 |
|  |  |
| 9 Alignment Tape<br>MC-1 | 10 Service Support System<br>YTU94057-50 |
|  |  |
| 11 INF Adjustment Lens<br>YTU92001B | 12 INF Adjustment Lens Holder<br>YTU94087 |
|  |  |
| 13 Camera Stand<br>YTU93079 | 14 Light box Assembly<br>YTU93096A |
|  |  |
| 15 Gray Scale Chart<br>YTU94133A | 16 Color Bar Chart<br>YTU94133C |
|  |  |

Table-3-1-1

1. **Torque driver**
   Be sure to use to fastening the mechanism and exterior parts because those parts must strictly be controlled for tightening torque.
2. **Bit**
   This bit is slightly longer than those set in conventional torque drivers.
3. **Tweezers**
   To be used for removing and installing parts and wires.
4. **Chip IC replacement jig**
   To be used for adjustment of the camera system.
5. **Jig connector cable**
   Connected to CN107 of the main board and used for electrical adjustment, etc.
6. **Extension connector**
   Connect this extension connector to the connector of the jig connector cable for extending the cable connector.
   **Note :** *For supplying the power through the coupler by removing the cover (for jig), use this extension connector double for connecting the jig connector cable.*
7. **Communication Cable**
   Connect the Communication cable between the PC cable and Jig connector cable when performing a PC adjustment.
8. **PC cable**
   To be used to connect the VideoMovie and a personal computer with each other when a personal computer is used for adjustment.
9. **Alignment tape**
   To be used for check and adjustment of interchangeability of the mechanism.
10. **Service support system**
    To be used for adjustment with a personal computer.
11. **INF adjustment lens**
    To be used for adjustment of the camera system.
12. **INF adjustment lens holder**
    To be used together with the camera stand for operating the VideoMovie in the stripped-down condition such as the status without the exterior parts or for using commodities that are not yet conformable to the interchangeable ring.
13. **Camera stand**
    To be used together with the INF adjustment lens holder.
14. **Light box assembly**
    To be used for adjustment of the camera system.
15. **Gray scale chart (for Light box assembly)**
    To be used for adjustment of the camera system.
16. **Color bar chart (for Light box assembly)**
    To be used for adjustment of the camera system.

### 3.2 SETUP

1. Setup for electrical adjustment with personal computer

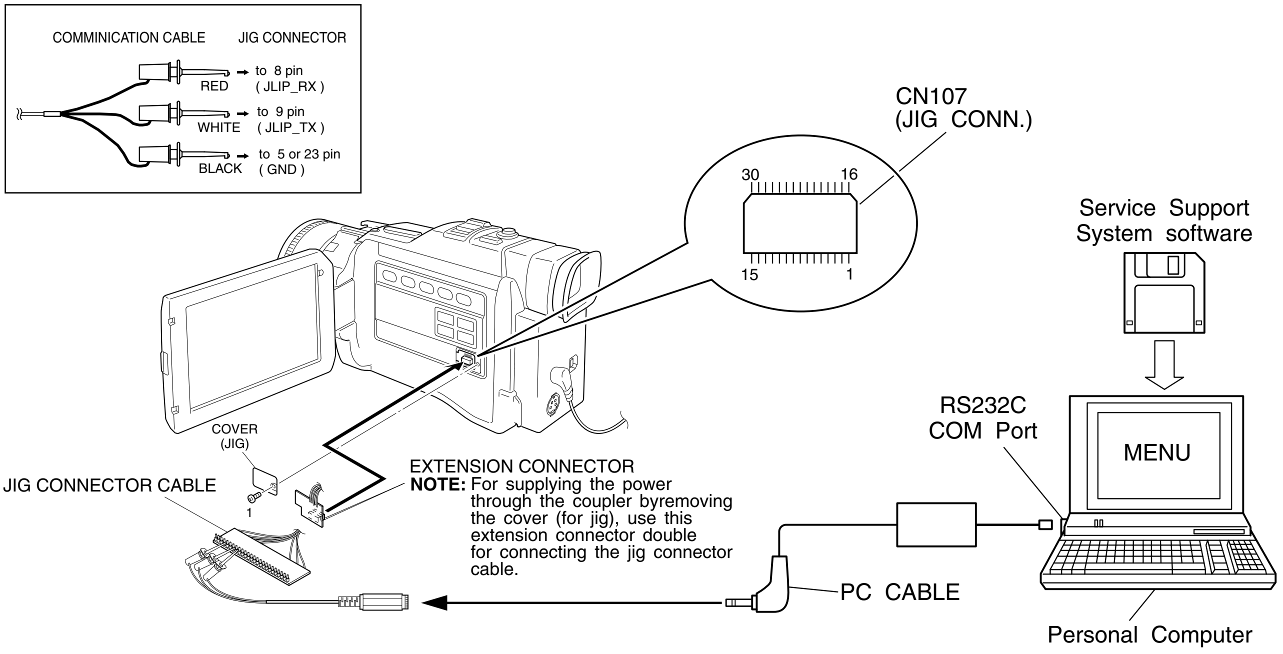

COMMINICATION CABLE
JIG CONNECTOR
RED
to 8 pin
( JLIP_RX )
WHITE
to 9 pin
( JLIP_TX )
BLACK
to 5 or 23 pin
( GND )
CN107
(JIG CONN.)
30
16
15
1
Service Support
System software
COVER
(JIG)
JIG CONNECTOR CABLE
1
EXTENSION CONNECTOR
NOTE: For supplying the power through the coupler byremoving the cover (for jig), use this extension connector double for connecting the jig connector cable.
RS232C
COM Port
MENU
PC CABLE
Personal Computer

Fig. 3-2-1 Connection for Service support system

## 3.3 MONITOR ADJUSTMENT

**Notes :** *Unless otherwise specified, all measurement points and adjustment parts are located on MONITOR board.*

### 3.3.1 PLL (MONI)

| | |
|---|---|
| Subject | • Camera picture<br>• Gray scale |
| Mode | • EE |
| Equipment | • Oscilloscope |
| Measurement point | • IC7301 pin 24 (RPD) or TL7301 (RPD) |
| Adjustment part | • R7321 (PLL MONI) |
| Specification | • A = B |

1) Observe waveform at pin 24 of the IC7301 or TP7301 (RPD).
2) For the wavefor shown in the waveform chart (Fig. 3-3-1), equalize the width of A and B with each other by adjusting R7321.

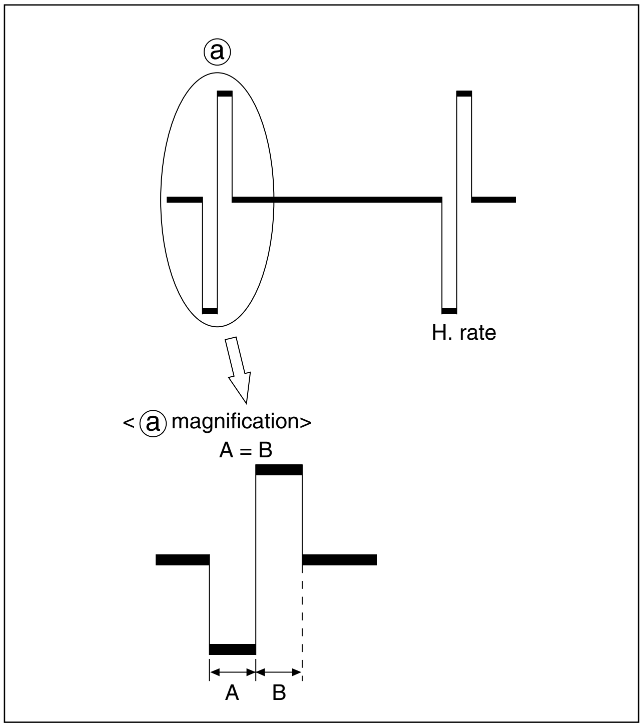

ⓐ
H. rate
<ⓐ magnification>
A = B
A
B

Fig. 3-3-1 PLL (MONI)

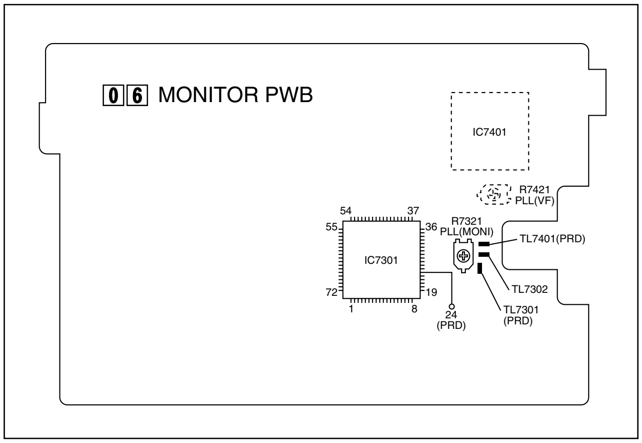

0 6 MONITOR PWB
IC7401
R7421
PLL(VF)
54
37
55
36
R7321
PLL(MONI)
TL7401(PRD)
IC7301
72
19
1
8
24
(PRD)
TL7302
TL7301
(PRD)

Fig. 3-3-2 MONITOR board (COMPONENT SIDE)

## 3.4 ELECTRONIC VIEWFINDER (E.VF) ADJUSTMENT

**Notes :** *Unless otherwise specified, all measurement points and adjustment parts are located on MONITOR board.*

### 3.4.1 PLL (VF)

| | |
|---|---|
| Subject | • Camera picture<br>• Gray scale |
| Mode | • EE |
| Equipment | • Oscilloscope |
| Measurement point | • IC7401 pin 24 (RPD) or TL7401 (RPD) |
| Adjustment part | • R7421 (PLL VF) |
| Specification | • A = B |

1) Observe waveform at pin 24 of the IC7401 or TL7401 (RPD).
2) For the wavefor shown in the waveform chart (Fig. 3-4-1), equalize the width of A and B with each other by adjusting R7421.

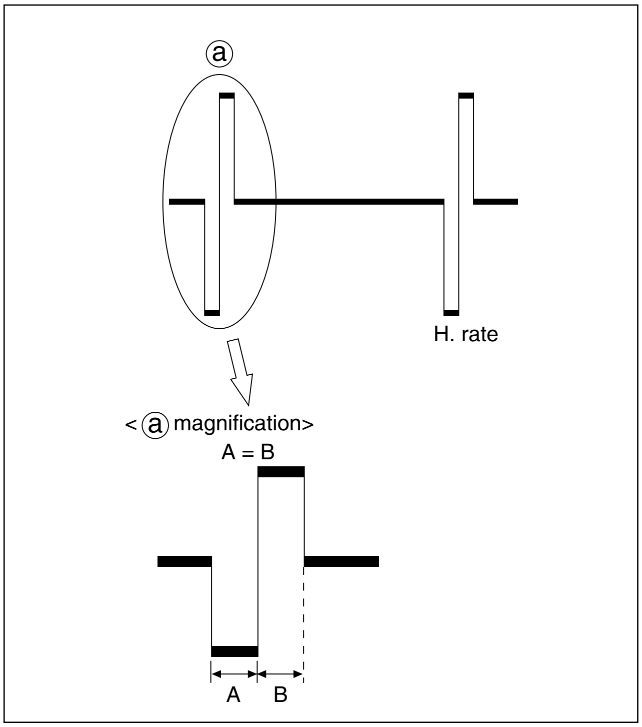

ⓐ
H. rate
<ⓐ magnification>
A = B
A
B

Fig. 3-4-1 PLL (VF)

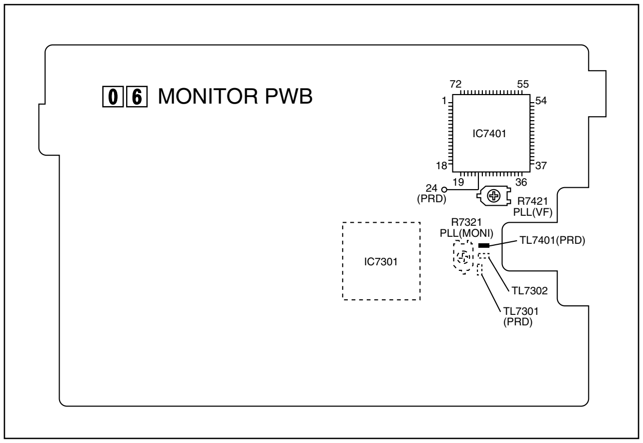

0 6 MONITOR PWB
72
55
1
54
IC7401
18
37
19
36
24
(PRD)
R7421
PLL(VF)
R7321
PLL(MONI)
TL7401(PRD)
IC7301
TL7302
TL7301
(PRD)

Fig. 3-4-2 MONITOR board (COMPONENT SIDE)

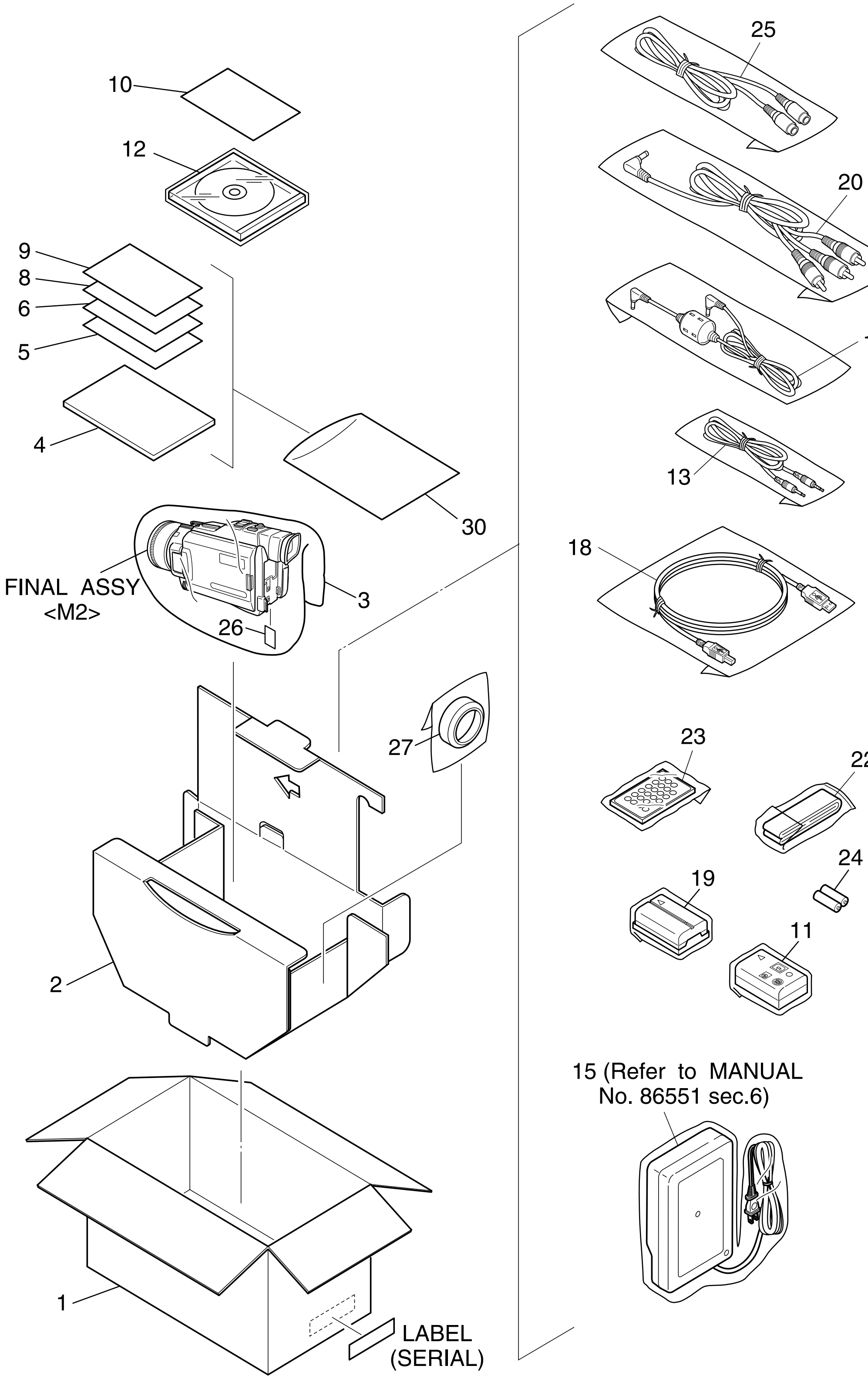
# SECTION 5
# PARTS LIST

## SAFETY PRECAUTION

**Parts identified by the ⚠ symbol are critical for safety. Replace only with specified part numbers.**

### 5.1 PACKING AND ACCESSORY ASSEMBLY <M1>

**The instruction manual to be provided with this product will differ according to the destination.**



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### PACKING AND ACCESSORY ASSEMBLY <M1>

| # ⚠ | REF No. | PART No. | PART NAME, DESCRIPTION |
|---|---|---|---|
| | 1 | LY32164-001B | PACKING CASE |
| | 2 | LY20666-001B | CUSION |
| | 3 | LY30023-020A | POLY BAG |
| ⚠ | 4 | LYT0708-001A | INST.BOOK(EN) |
| ⚠ | | LYT0708-002A | INST.BOOK(FR) |
| ⚠ | | LYT0708-003A | INST.BOOK(SP) |
| | 5 | LYT0708-004A | INST.BOOK(PRINTER.EN) |
| | | LYT0708-005A | INST.BOOK(PRINTER.FR) |
| | | LYT0708-006A | INST.BOOK(PRINTER.SP) |
| ⚠ | 6 | LYT0709-001A | INST.BOOK(SOFT.3LANG) |
| | 8 | LYT0378-003A | SHEET(AGREMENT) |
| | 9 | BT-51005-4 | WARRANTY INF. |
| | 10 | BT-51020-2 | REGIST.CARD |
| | 11 | LY20677-002A | JACK BOX |
| | 12 | LY31133-021A | CD ROM |
| | 13 | PEAC0428-150 | CABLE ASSY,EDITING CABLE |
| ⚠ | 15 | LY20591-001B | AC POWER ADAPTER/CHARGER,AA-V40U |
| | 16 | QAM0170-001 | DC CORD |
| | 18 | QAM0322-001 | USB CABLE |
| ⚠ | 19 | LY31587-001A | BATTERY PACK,BN-V408U |
| | 20 | QAM0211-001 | CABLE ASSY,AUDIO/VIDEO CABEL |
| | 22 | LY20186-001A | SHOULDER STRAP |
| | 23 | LY20543-002A | REMOTE CONTROL UNIT,RM-V716U |
| | 24 | – | BATTERY,AAA(R03),X2 |
| | 25 | QAM0004-004 | S VIDEO CABLE |
| | 26 | QAM0321-002 | MULTIMEDIA CARD |
| | 27 | LY32003-001A | LENS HOOD |
| | 30 | QPA02003006 | POLY BAG |

- INSTRUCTIONS
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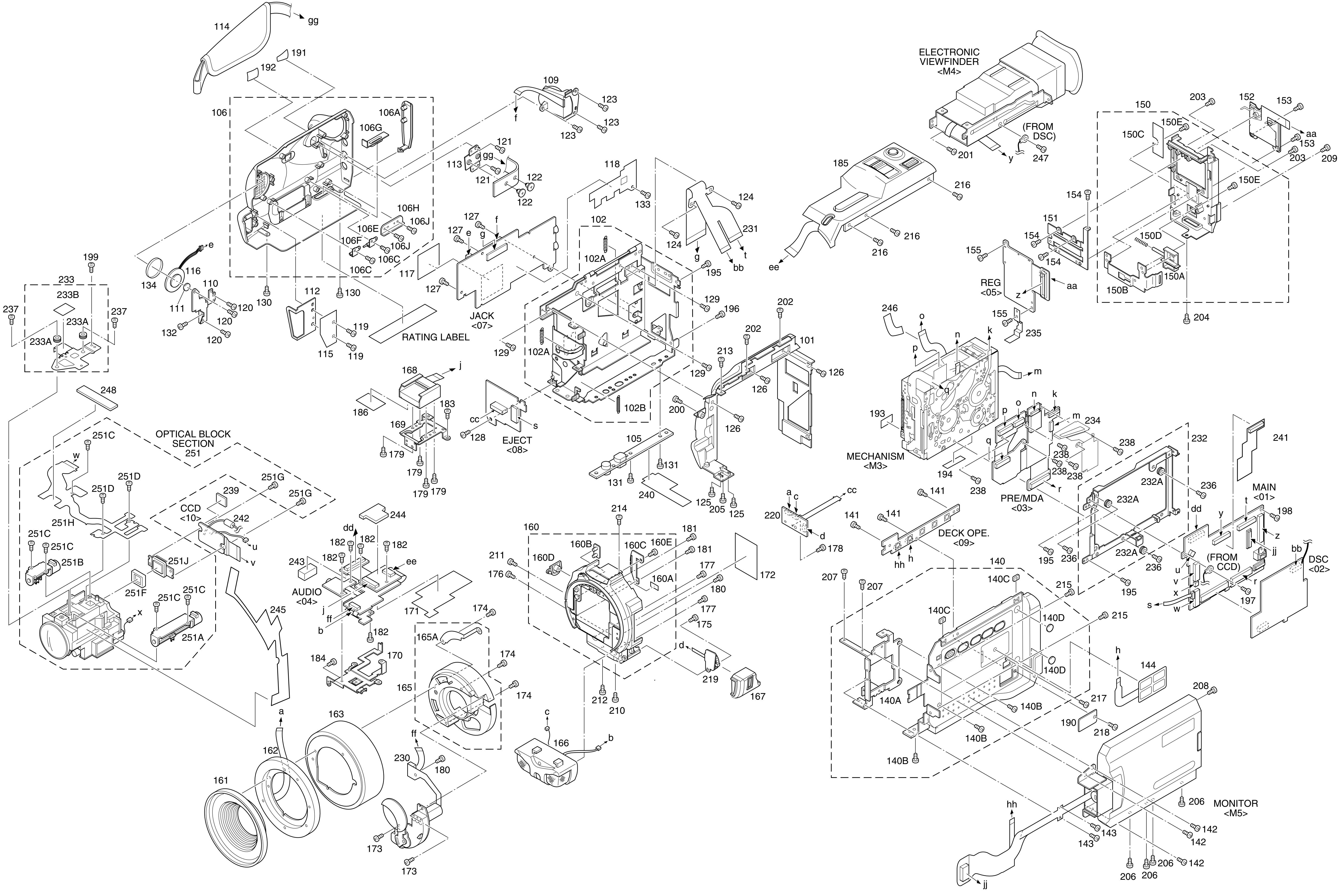
  FR ...... FRENCH
  SP ...... SPANISH

## 5.2 FINAL ASSEMBLY <M2>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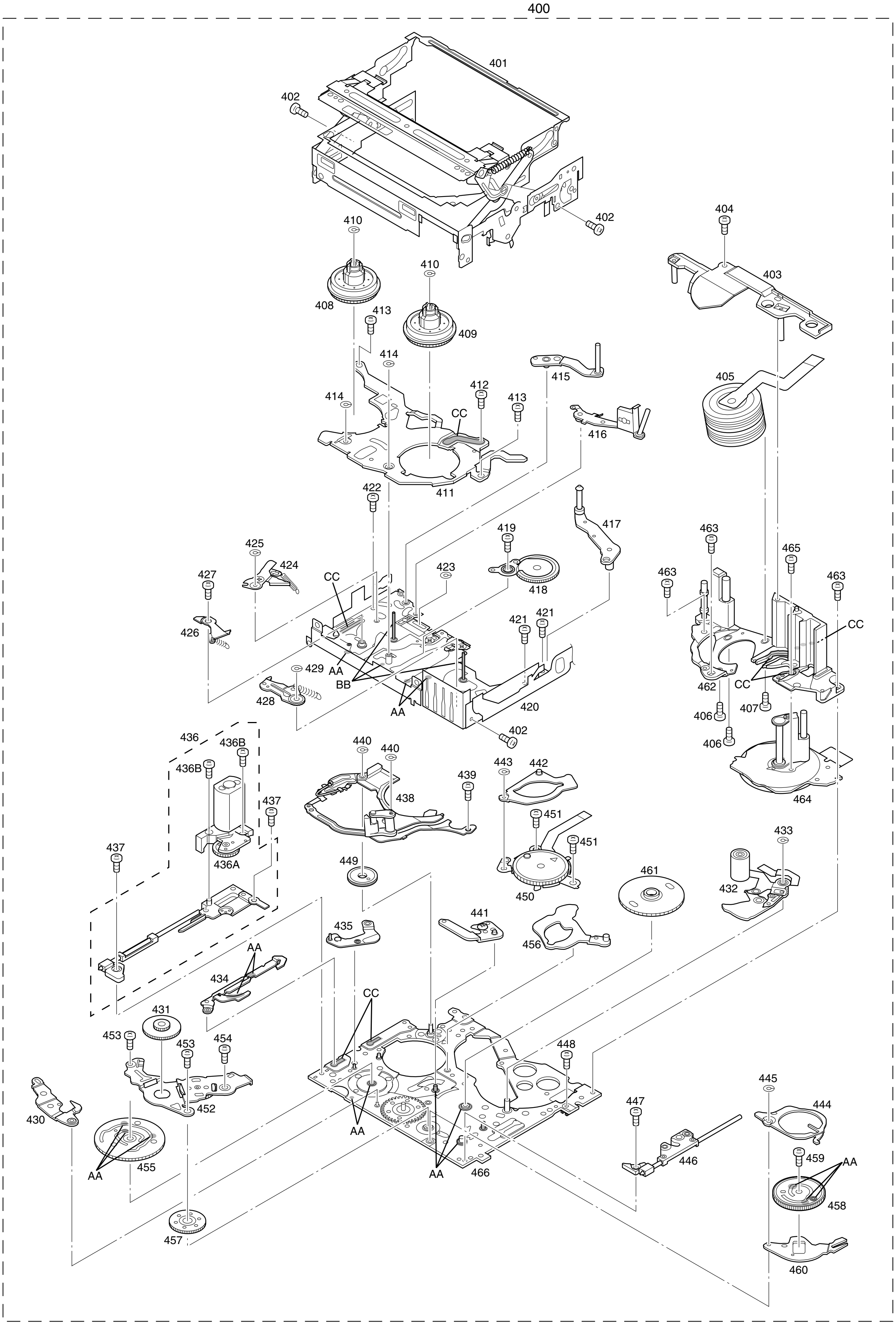
## FINAL ASSEMBLY <M2>

| # ⚠ | REF No. | PART No. | PART NAME, DESCRIPTION |
|---|---|---|---|
| | 101 | LY10266-001A | LOWER CASE |
| | 102 | LY31964-001E | ARM ASSY |
| | 102A | LY30002-046B | COMPRESSION SPRING,X2 |
| | 102B | LY42814-001A | TENSION SPRING |
| | 105 | LY31984-001B | BASE |
| ⚠ | 106 | LY20657-002B | CASSETTE COVER ASSY |
| | 106A | LY31973-001A | JACK COVER |
| | 106C | LY30018-021A | SPECIAL SCREW,X2 |
| | 106E | LY32045-001A | HINGE ASSY(C) |
| | 106F | LY32045-002A | HINGE ASSY(C) |
| | 106G | LY42786-001A | KNOB(LOCK) |
| | 106H | LY42787-001A | HOLDER(LOCK) |
| | 106J | LY30018-037A | SPECIAL SCREW,X2 |
| | 109 | LY20653-002A | POWER OPE.UNIT |
| | 110 | LY31977-001A | HOLDER(SPK) |
| | 111 | LY42918-001B | SPACER(SPK) |
| | 112 | LY42788-001A | HOOK |
| | 113 | LY42789-001B | BRACKET(GRIP BELT) |
| | 114 | LY20658-002A | GRIP BELT |
| | 115 | LY43019-001A | SHEET(GRIP BELT) |
| | 116 | QAS0063-001 | SPEAKER |
| | 117 | LY42878-001C | SHEET(MMC) |
| | 118 | LY42881-001C | SPACER(JACK) |
| | 119 | QYSLSF2050D | SCREW,X2 |
| | 120 | LY30018-021A | SPECIAL SCREW,X3 |
| | 121 | QYSLSF2040D | SCREW,X2 |
| | 122 | LY30018-0C7A | SPECIAL SCREW,X2 |
| | 123 | LY30018-0B7A | SPECIAL SCREW,X3 |
| | 124 | LY30018-005A | SPECIAL SCREW,X2 |
| | 125 | LY30018-080A | SPECIAL SCREW,X2 |
| | 126 | LY30018-006B | SPECIAL SCREW,X3 |
| | 127 | QYSPSPT1720R | SCREW,X3 |
| | 128 | QYSPSPT1720R | SCREW |
| | 129 | LY30018-0B7A | SPECIAL SCREW,X3 |
| | 130 | LY30018-038A | SPECIAL SCREW,X2 |
| | 131 | LY30018-006B | SPECIAL SCREW,X2 |
| | 132 | LY30018-032A | SPECIAL SCREW |
| | 133 | LY30018-0B7A | SPECIAL SCREW |
| | 134 | LY40301-001A | SPACER(SPK) |
| ⚠ | 140 | LY20659-002B | UPPER CASE ASSY |
| | 140A | LY31981-001A | BRACKET(HINGE) |
| | 140B | LY30018-0A8A | SPECIAL SCREW,X3 |
| | 140C | LY40162-001A | BRACKET,X2 |
| | 140D | LY40664-001A | SPACER,X2 |
| | 141 | LY30018-020A | SPECIAL SCREW,X3 |
| | 142 | LY30018-042A | SPECIAL SCREW,X3 |
| | 143 | LY30018-055A | SPECIAL SCREW,X2 |
| | 144 | LY32051-002A | SUB OPE.UNIT |
| | 150 | LY31986-002B | REAR COVER ASSY |
| | 150A | LY31988-001D | KNOB(B.RELEASE) |
| | 150B | LY31989-001A | BRACKET(B.RELEASE) |
| | 150C | LY42792-001A | SHEET(REAR) |
| | 150D | LY30002-048A | COMPRESSION SPRING |
| | 150E | LY30018-066A | SPECIAL SCREW,X2 |
| | 151 | LY31987-001A | BRACKET(TERM) |
| | 152 | LY20660-001B | BATTERY TERMINAL UNIT |
| | 153 | LY30018-038A | SPECIAL SCREW,X2 |
| | 154 | LY30018-019A | SPECIAL SCREW,X3 |
| | 155 | LY30018-060A | SPECIAL SCREW,X2 |
| | 160 | LY20661-002A | FRONT COVER ASSY |
| | 160A | LY30029-0B1A | SPACER(A) |
| | 160B | LY31992-001A | LEVER(P/S) |
| | 160C | LY31993-001A | HOLDER(P/S) |
| | 160D | LY31995-001A | COVER(JACK) |
| | 160E | LY30018-0A7A | SPECIAL SCREW |
| | 161 | LY32009-001B | HOOD |
| | 162 | LY20654-001A | FOCUS UNIT |
| | 163 | LY31996-002A | COVER(OP) |
| | 165 | LY42840-001B | FRAME ASSY |
| | 165A | LY42841-001B | SHEET(EARTH) |
| | 166 | LY20664-001A | MICROPHONE |
| | 167 | LY31997-002A | COVER(MENU) |
| | 168 | LY42949-001A | SHOE ASSY |
| | 169 | LY31999-001A | BRACKET(H.S) |
| | 170 | LY20665-001A | BRACKET(AUDIO) |
| | 171 | LY42913-001A | SHEET(AUDIO) |
| | 172 | LY42920-001A | SHEET(FRONT) |
| | 173 | LY30018-021A | SPECIAL SCREW,X2 |
| | 174 | LY30018-0A1A | SPECIAL SCREW,X3 |
| | 175 | LY30018-021A | SPECIAL SCREW |
| | 176 | LY30018-037A | SPECIAL SCREW |
| | 177 | LY30018-037A | SPECIAL SCREW,X2 |
| | 178 | LY30018-021A | SPECIAL SCREW |
| | 179 | LY30018-031A | SPECIAL SCREW,X4 |
| | 180 | LY30018-052A | SPECIAL SCREW,X2 |
| | 181 | LY30018-0C1A | SPECIAL SCREW |
| | 182 | LY30018-032A | SPECIAL SCREW,X5 |
| | 183 | LY30018-032A | SPECIAL SCREW |
| | 184 | LY30018-021A | SPECIAL SCREW |
| | 185 | LY10262-002A | ZOOM OPE.UNIT |
| | 186 | LY30029-0D1A | SPACER(A) |
| | 190 | LY41393-004A | COVER(JIG CONN) |
| | 191 | LY42790-001A | COVER(CASS) |
| | 192 | LY32039-001B | COVER(CASS.R) |
| | 193 | LY40699-002A | LABEL(PUSH) |
| | 194 | LY32001-002A | LABEL(HOUSING) |
| | 195 | QYSPSPT1715Z | SCREW,X3 |
| | 196 | LY30018-017A | SPECIAL SCREW |
| | 197 | LY42424-001A | SPECAL SCREW |
| | 198 | LY30019-002A | SPECIAL SCREW |
| | 199 | LY30018-006B | SPECIAL SCREW |
| | 200 | LY30018-006B | SPECIAL SCREW |
| | 201 | LY30018-059A | SPECIAL SCREW |
| | 202 | LY30018-006B | SPECIAL SCREW,X2 |
| | 203 | LY30018-0C2A | SPECIAL SCREW,X2 |
| | 204 | LY30018-011A | SPECIAL SCREW |
| | 205 | LY30018-044A | SPECIAL SCREW |
| | 206 | LY30018-044A | SPECIAL SCREW,X4 |
| | 207 | LY30018-006B | SPECIAL SCREW,X2 |
| | 208 | LY30018-044A | SPECIAL SCREW |
| | 209 | LY30018-011A | SPECIAL SCREW |
| | 210 | LY30018-044A | SPECIAL SCREW |
| | 211 | LY30018-059A | SPECIAL SCREW |
| | 212 | LY30018-063A | SPECIAL SCREW |
| | 213 | LY30018-006B | SPECIAL SCREW |
| | 214 | LY30018-006B | SPECIAL SCREW |
| | 215 | LY30018-059A | SPECIAL SCREW,X2 |
| | 216 | LY30018-006B | SPECIAL SCREW,X3 |
| | 217 | LY30018-006B | SPECIAL SCREW |
| | 218 | LY30018-026A | SPECIAL SCREW |
| | 219 | LY32072-001A | MENU SW UNIT |
| | 220 | LY32071-001A | FRONT FPC UNIT |
| | 230 | LY20676-001C | LENS SHUTTER ASSY |
| | 231 | QAL0260-001 | FPC,JACK CN301 |
| | 232 | LY32066-001A | BRACKET(MECHA)ASSY |
| | 232A | LY42796-001A | BUSH,X3 |
| | 233 | LY32067-001B | BRACKET(OP)ASSY |
| | 233A | LY42796-001A | BUSH,X2 |
| | 233B | LY30029-0C6A | SPACER(A) |
| | 234 | LY32012-001A | SHIELD COVER(PR) |
| | 235 | LY42889-001A | SHIELD(REG) |
| | 236 | LY30019-028A | SPECIAL SCREW,X3 |
| | 237 | LY30019-029B | SPECIAL SCREW,X2 |
| | 238 | QYSPSPT1414M | SCREW,X5 |
| | 239 | LY30029-0E6A | SPACER(A) |
| | 240 | LY43002-001A | HEAT SINK(BASE) |
| | 241 | LY42972-001A | HEAT SINK(MAIN) |
| | 242 | LY32194-001B | LUG WIRE ASSY |
| | 243 | LY30029-0C8A | SPACER(A) |
| | 244 | LY42952-001A | SHEET(AUDIO) |
| | 245 | LY42951-001B | SHEET(OP) |
| | 246 | LY43025-001A | SHEET(D.FPC) |
| | 247 | QYSPSPT1712M | SCREW |
| | 248 | LY30029-0F3A | SPACER(A) |

### – OPTICAL BLOCK SECTION –

| # ⚠ | REF No. | PART No. | PART NAME, DESCRIPTION |
|---|---|---|---|
| | 251 | J9C-101A | OPTICAL BLOCK ASSY |
| | 251A | LY31901-001A | ZOOM MOTOR |
| | 251B | LY31902-001A | FOCUS MOTOR |
| | 251C | LY30727-002A | SCREW,X5 |
| | 251D | LY30727-001A | SCREW,X2 |
| | 251F | LY31900-001A | SPACER RUBBER |
| | 251G | QYSPSGU1750Z | SCREW,X2 |
| | 251H | LY31903-001A | IRIS MOTOR UNIT |
| | 251J | LYH40136-001A | CCD BASE ASSY |

## 5.3 MECHANISM ASSEMBLY <M3>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| Classification | Part No. | Symbol in drawing |
|---|---|---|
| Grease | KYODO-SH-P | AA |
| Oil | YTU94027 | BB |
| Grease (HANARL) | RX-410R | CC |

**NOTE:** The section marked in **AA** and **BB**, **CC** indicate lubrication and greasing areas.

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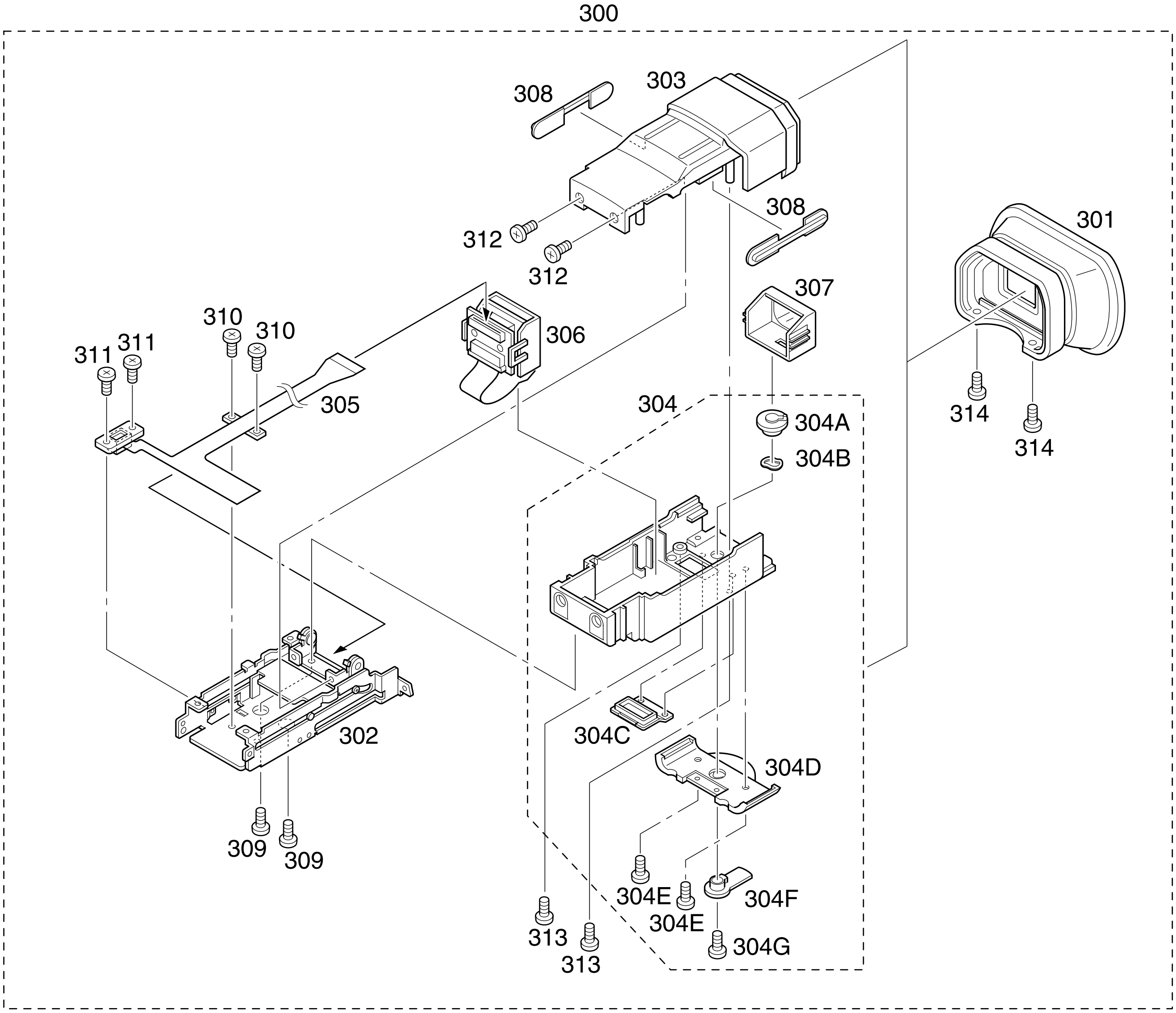
## MECHANISM ASSEMBLY <M3>

| # ⚠ REF No. | PART No. | PART NAME, DESCRIPTION |
|---|---|---|
| 400 | YMA0029A | MECHA(A) ASSY |
| 401 | LY31543-002B | CASSETTE HOUSING ASSY |
| 402 | YQ43893-8 | MINI SCREW,X3 |
| 403 | LY31542-001D | U.BASE ASSY |
| 404 | YQ43893 | MINI SCREW |
| 405 | YDV2096A | DRUM ASSY |
| 406 | LY42820-001A | DAMP.SCREW ASSY,X2 |
| 407 | LY42820-002A | DAMP.SCREW ASSY |
| 408 | LY31538-001B | REEL DISK ASSY |
| 409 | LY31538-002B | REEL DISK ASSY |
| 410 | YQ44246 | SLIT WASHER,X2 |
| 411 | LY10217-001A | REEL COVER ASSY |
| 412 | LY42120-001A | MINI SCREW |
| 413 | LY41945-003A | MINI SCREW,X2 |
| 414 | YQ44246 | SLIT WASHER,X2 |
| 415 | LY42025-001A | TEN.ARM ASSY |
| 416 | LY31535-001A | S.POLE ARM ASSY |
| 417 | LY42031-001C | TU ARM ASSY |
| 418 | LY31531-001A | SWING ARM ASSY |
| 419 | YQ43893 | MINI SCREW |
| 420 | LY20530-001A | SLIDE DECK F.ASSY |
| 421 | YQ43893 | MINI SCREW,X2 |
| 422 | LY43023-001A | MINI SCREW |
| 423 | YQ44246 | SLIT WASHER |
| 424 | LY31533-001C | PAD ARM ASSY |
| 425 | YQ44246 | SLIT WASHER |
| 426 | LY42014-001A | SUP BRAKE ASSY |
| 427 | YQ43893 | MINI SCREW |
| 428 | LY42016-001A | TU BRAKE ASSY |
| 429 | YQ44246 | SLIT WASHER |
| 430 | LY41959-001A | T.C.LEVER ASSY |
| 431 | LY31525-001A | CENTER GEAR |
| 432 | LY31516-001B | P.R.ARM F.ASSY |
| 433 | YQ44246 | SLIT WASHER |
| 434 | LY41956-001A | T.C.PLATE ASSY |
| 435 | LY41962-001A | B.C.LEVER ASSY |
| 436 | LY20525-001C | MOTOR BRACKET ASSY |
| 436A | QAR0138-001 | LOADING MOTOR |
| 436B | LY41940-001A | TAPPING SCREW,X2 |
| 437 | YQ43893 | MINI SCREW,X3 |
| 438 | LY20528-001B | GUIDE RAIL ASSY |
| 439 | YQ43893 | MINI SCREW |
| 440 | YQ44246 | SLIT WASHER,X2 |
| 441 | LY31498-002A | SLIDE LEVER2 ASSY |
| 442 | LY41965-001A | LOAD.PLATE ASSY |
| 443 | YQ44246 | SLIT WASHER |
| 444 | LY31522-001A | EJECT LEVER |
| 445 | YQ44246 | SLIT WASHER |
| 446 | LY41929-001A | BASE R ASSY |
| 447 | YQ43893 | MINI SCREW |
| 448 | LY41945-001A | MINI SCREW |
| 449 | LY41930-001A | MODE GEAR |
| 450 | QSW0876-001 | ROTARY ENCODER |
| 451 | YQ43893 | MINI SCREW,X2 |
| 452 | LY31524-001A | GEAR COVER ASSY |
| 453 | YQ43893 | MINI SCREW,X2 |
| 454 | YQ43893-4 | MINI SCREW |
| 455 | LY41948-001A | MAIN CAM ASSY |
| 456 | LY41941-001A | SLIDE ARM ASSY |
| 457 | LY41951-001A | CONNECT GEAR 2 |
| 458 | LY41954-001A | SUB CAM ASSY |
| 459 | LY42120-001A | MINI SCREW |
| 460 | LY41952-001A | CONTROL ARM ASSY |
| 461 | LY31523-001A | REEL GEAR 1 |
| 462 | LY31508-001B | DRUM BASE ASSY |
| 463 | QYSPSPU1425M | SCREW,X3 |
| 464 | QAR0142-001 | CAPSTAN MOTOR |
| 465 | YQ43893 | MINI SCREW |
| 466 | LY10210-001A | MAIN DECK ASSY |

## 5.4 ELECTRONIC VIEWFINDER ASSEMBLY <M4>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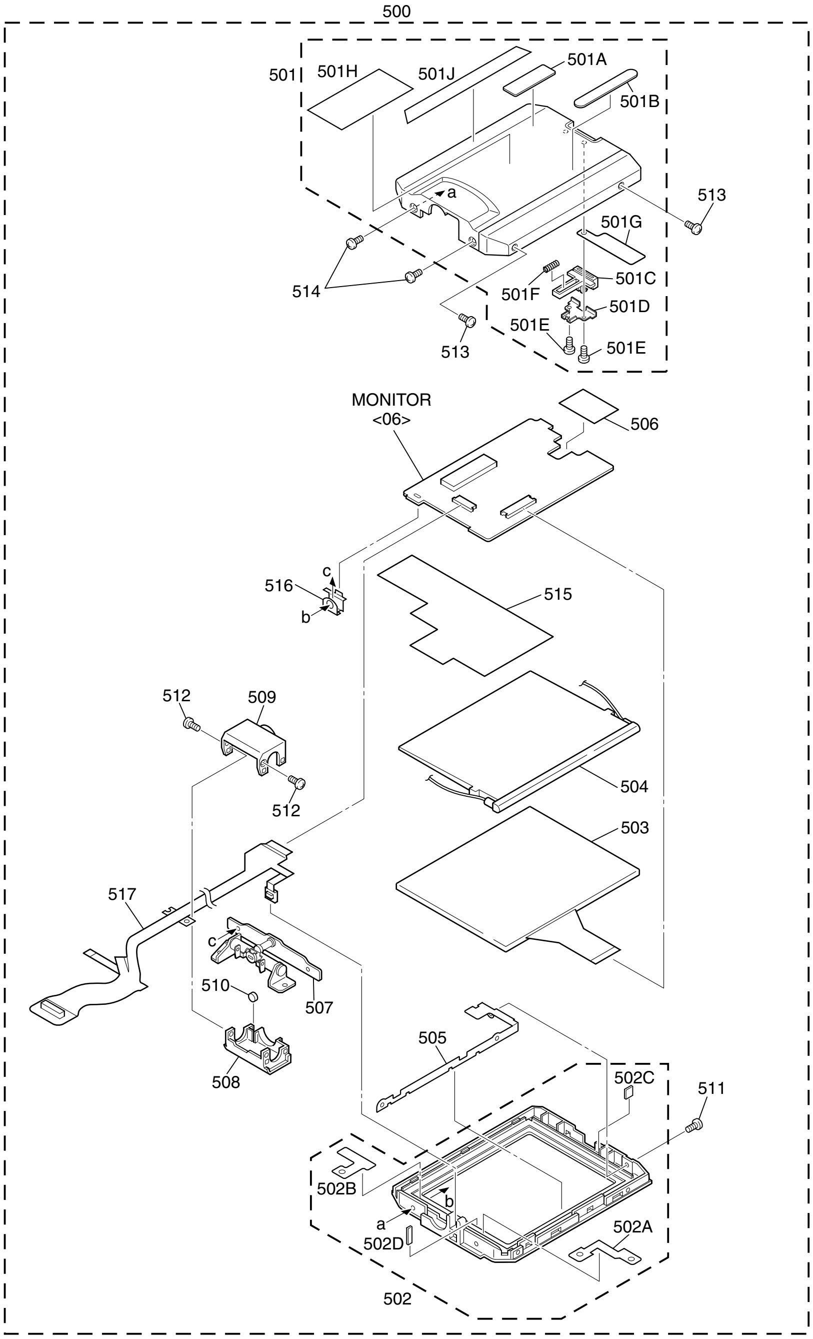
### ELECTRONIC VIEWFINDER ASSEMBLY <M4>

| # | ⚠ | REF No. | PART No. | PART NAME, DESCRIPTION |
|---|---|---|---|---|
| | | 300 | LY20671-002C | VF UNIT |
| | | 301 | PTY20671-001 | EYE CAP |
| | | 302 | PTY20671-011 | BRACKET(VF)ASSY |
| | | 303 | PTY20671-021 | UPPER CASE ASSY |
| | | 304 | PTY20671-031 | BOTTOM CASE ASSY |
| | | 304A | PTY20671-032 | LINK(VF) |
| | | 304B | PTY20671-033 | WAVE WASHER |
| | | 304C | PTY20671-034 | CAP |
| | | 304D | PTY20671-035 | COVER(CAP) |
| | | 304E | PTY30018-0C8A | SCREW,X2 |
| | | 304F | PTY20671-037 | LEVER(VF) |
| | | 304G | LY30018-063A | SCREW |
| | | 305 | LY32070-001B | VF FPC ASSY |
| | | 306 | PTY20671-041 | LCD UNIT |
| | | 307 | PTY20671-051 | LENS ASSY |
| | | 308 | PTY20671-061 | RIB,X2 |
| | | 309 | LY30018-084A | SCREW,X2 |
| | | 310 | LY30018-031A | SCREW,X2 |
| | | 311 | LY30018-006B | SCREW,X2 |
| | | 312 | LY30018-067B | SCREW,X2 |
| | | 313 | LY30018-084A | SCREW,X2 |
| | | 314 | LY30019-034A | SCREW,X2 |

## 5.5 MONITOR ASSEMBLY <M5>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501A
501B
a
513
501G
501C
514
501F
501D
501E
513
501E
MONITOR
<06>
506
516
c
b
515
512
509
504
512
503
517
c
510
507
505
508
502C
511
502B
b
a
502D
502A
502

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### MONITOR ASSEMBLY <M5>

| # | ⚠ | REF No. | PART No. | PART NAME, DESCRIPTION |
|---|---|---|---|---|
| | ⚠ | 500 | LYH20192-002A | MONITOR ASSY |
| | ⚠ | 501 | LY32013-002B | MONITOR COVER ASSY |
| | | 501A | LY42883-002A | MARK |
| | | 501B | LY42798-001A | MARK |
| | | 501C | LY32014-001A | KNOB(LOCK) |
| | | 501D | LY42799-001A | BRACKET(LOCK) |
| | | 501E | LY30018-019A | SPECIAL SCREW,X2 |
| | | 501F | LY30002-047A | COMPRESSION SPRING |
| | | 501G | LY42800-001A | SHEET(LOCK) |
| | | 501H | LY42980-001A | STICKER(2) |
| | | 501J | LY42979-001A | STICKER(1) |
| | | 502 | LY32015-001C | MONITOR CASE ASSY |
| | | 502A | LY42801-001B | SHEET(EARTH.1) |
| | | 502B | LY42971-001A | SHEET(EARTH3) |
| | | 502C | LY30029-0F1A | SPACER(A) |
| | | 502D | LY30029-0F2A | SPACER(A) |
| | | 503 | QLD0115-003 | LCD MODULE |
| | | 504 | QLL0091-001 | BACK LIGHT |
| | | 505 | LY32016-001A | BRACKET(MONITOR CASE) |
| | | 506 | LY30029-0C4A | SPACER(A) |
| | | 507 | LY32017-001C | HINGE ASSY |
| | | 508 | LY32018-001A | HINGE COVER(U) |
| | | 509 | LY32019-001A | HINGE COVER(L) |
| | | 510 | LY42355-001A | MAGNET |
| | | 511 | LY30018-053A | SPECIAL SCREW |
| | | 512 | LY30018-0A2A | SPECIAL SCREW,X2 |
| | | 513 | LY30018-053A | SPECIAL SCREW,X2 |
| | | 514 | LY30018-028A | SPECIAL SCREW,X2 |
| | | 515 | LY42843-001C | MONITOR SHIELD PLATE |
| | | 516 | LY41726-001A | PLATE(EARTH) |
| | | 517 | LY20681-001A | FPC ASSY(LCD) |

## 5.6 ELECTRICAL PARTS LIST

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### MAIN BOARD ASSEMBLY <01>

| # | ⚠ | REF No. | PART No. | PART NAME, DESCRIPTION |
|---|---|---|---|---|
| | | PW | YB10301B-03 | MAIN BOARD ASSY |
| | | IC1001 | YQ44899A | CSP IC ASSY |
| | | IC1002 | RS5C314 | IC |
| | | IC1003 | X25330S8I-2.5-X | IC |
| | | | or 25LC320-I/SN-X | IC |
| | | | or AT25320N-10SI-X | IC |
| | | IC1004 | TC7W08FU | IC(DIGITAL) |
| | | IC1005 | TC7W66FU | IC(DIGITAL) |
| | | IC1006 | TC7W53FU | IC(DIGITAL) |
| | | | or SN74AHC2G53T | IC |
| | | IC1007 | MB90097PFV139 | IC(MICRO C ROM) |
| | | IC1008 | TC74VHC08FT | IC(DIGITAL) |
| | | IC1201 | BA6417F | IC |
| | | IC1301 | TC7SH32FU | IC(DIGITAL) |
| | | IC1302 | TC7S02FU | IC(DIGITAL) |
| | | IC1401 | YQ44896A | CSP IC ASSY |
| | | IC1403 | TC7W53FU | IC(DIGITAL) |
| | | | or SN74AHC2G53T | IC |
| | | IC3001 | JCY0133 | IC |
| | | IC3002 | JCY0136 | IC |
| | | IC3302 | TLC2940IPW | IC |
| | | IC3701 | NJM2538V | IC |
| | | IC3702 | MM1385HN | IC |
| | | IC3901 | JCP8029 | IC |
| | | IC3903 | SN74AHC1G04K | IC |
| | | | or TC7S04FU | IC(DIGITAL) |
| | | IC3951 | MM1504XN | IC |
| | | IC4201 | HD49325BHF | IC |
| | | IC4202 | RH5RZ31CA | IC |
| | | IC4301 | YQ44871A | CSP ASSY |
| | | IC4302 | MM1385NN | IC |
| | | IC4401 | BU2501FV | IC |
| | | IC4802 | TA75W01FU | IC |
| | | IC4803 | TA75W01FU | IC |
| | | IC4804 | NJM3414AV | IC |
| | | IC4805 | MM6564XFBE | IC |
| | | IC4806 | TC7W00FK | IC |
| | | IC4807 | TC7W66FK | IC |
| | | IC4808 | TC7S66FU | IC(DIGITAL) |
| | | IC4851 | UPD16879GS | IC |
| | | IC4901 | TA75W01FU | IC |
| | | IC4902 | TA75W01FU | IC |
| | | IC4903 | MM6564XFBE | IC |
| | | IC4904 | NJM3414AV | IC |
| | | IC5001 | JCY0138 | IC |
| | | IC5002 | MM1385DN | IC |
| | | IC5004 | W194-70G-X | IC |
| | | IC6001 | S-80842ANNP-W | IC |
| | | IC6002 | S-817A33ANB-W | IC |
| | | IC6003 | S-814A30AMC-W | IC |
| | | IC6004 | S-80826ANNP-W | IC |
| | | Q1001 | DTC143EE | TRANSISTOR |
| | | | or RN1101 | TRANSISTOR |
| | | | or UN921LJ | TRANSISTOR |
| | | Q1002 | 2SC4617/QR/-X | TRANSISTOR |
| | | Q1003 | DTC124EE | TRANSISTOR |
| | | | or RN1103 | TRANSISTOR |
| | | | or UN9212J | TRANSISTOR |
| | | Q1301 | 2SC4617/RS/-X | TRANSISTOR |
| | | Q1401 | DTA114EE | TRANSISTOR |
| | | | or RN2102 | TRANSISTOR |
| | | | or UN9111J | TRANSISTOR |
| | | Q1402 | UMC3N | TRANSISTOR |
| | | Q1403 | UMC3N | TRANSISTOR |
| | | Q1404 | DTC144EE | TRANSISTOR |
| | | | or RN1104 | TRANSISTOR |
| | | | or UN9213J | TRANSISTOR |
| | | Q2001 | NDS352AP | MOS FET |
| | | Q2002 | 2SK1830 | MOS FET |
| | | Q3701 | DTC144EE | TRANSISTOR |
| | | | or RN1104 | TRANSISTOR |
| | | | or UN9213J | TRANSISTOR |
| | | Q3702 | 2SC4617/RS/-X | TRANSISTOR |
| | | Q3951 | UMZ1N | PAIR TRANSISTOR |
| | | Q3952 | DTC144EE | TRANSISTOR |
| | | | or RN1104 | TRANSISTOR |
| | | | or UN9213J | TRANSISTOR |
| | | Q3953 | UMZ1N | PAIR TRANSISTOR |
| | | Q3954 | 2SC4617/RS/-X | TRANSISTOR |
| | | Q4351 | 2SA1832FT/G/-X | TRANSISTOR |
| | | Q4352 | UMT2N | PAIR TRANSISTOR |
| | | Q4353 | UMT2N | PAIR TRANSISTOR |
| | | Q4354 | 2SA1832FT/G/-X | TRANSISTOR |
| | | Q4801 | 2SC4655/BC/-X | TRANSISTOR |
| | | Q4802 | 2SC4617/RS/-X | TRANSISTOR |
| | | Q4803 | DTC144EE | TRANSISTOR |
| | | | or RN1104 | TRANSISTOR |
| | | | or UN9213J | TRANSISTOR |
| | | Q4804 | DTA144EE | TRANSISTOR |
| | | | or RN2104 | TRANSISTOR |
| | | | or UN9113J | TRANSISTOR |
| | | Q4851 | 2SC4617/RS/-X | TRANSISTOR |
| | | Q4901 | 2SC4655/BC/-X | TRANSISTOR |
| | | Q6001 | CPH3304 | MOS FET |
| | | Q6002 | 2SK3019 | MOS FET |
| | | | or 2SK1830 | MOS FET |
| | | Q6003 | 2SJ347 | MOS FET |
| | | Q6004 | 2SK3019 | MOS FET |
| | | | or 2SK1830 | MOS FET |
| | | Q6005 | DTC144EE | TRANSISTOR |
| | | | or RN1104 | TRANSISTOR |
| | | | or UN9213J | TRANSISTOR |
| | | Q6006 | CPH3304 | MOS FET |
| | | Q6007 | RN47A3 | TRANSISTOR |
| | | D1002 | DA221 | DIODE |
| | | D1201 | DAP222 | DIODE |
| | | D1301 | RB715F | SB DIODE |
| | | D2001 | EMZ6.8N | ZENER DIODE |
| | | D2002 | EMZ6.8N | ZENER DIODE |
| | | D2003 | EMZ6.8N | ZENER DIODE |
| | | D2004 | EMZ6.8N | ZENER DIODE |
| | | D2005 | SBS006 | SB DIODE |
| | | D3002 | EC2C01C | VARI CAP DIODE |
| | | D3301 | EC2C01C | VARI CAP DIODE |
| | | D3302 | EC2C01C | VARI CAP DIODE |
| | | D4101 | 1SS355 | DIODE |
| | | D4801 | DAN222 | DIODE |
| | | D4802 | DAN222 | DIODE |
| | | D4803 | DAN222 | DIODE |
| | ⚠ | D6001 | RB706D-40-X | SB DIODE |
| | | D6002 | RB715F | SB DIODE |

| # ⚠ REF No. | PART No. | PART NAME, DESCRIPTION | |
|---|---|---|---|
| R1001 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R1002 | NRSA6AJ-473W | MG RESISTOR | 47kΩ,1/16W |
| R1003 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R1004 | NRSA6AJ-473W | MG RESISTOR | 47kΩ,1/16W |
| R1005 | NRSA6AJ-473W | MG RESISTOR | 47kΩ,1/16W |
| R1006 | NRSA6AJ-104W | MG RESISTOR | 100kΩ,1/16W |
| R1007 | NRSA6AJ-472W | MG RESISTOR | 4.7kΩ,1/16W |
| R1008 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R1009 | NRSA6AJ-224W | MG RESISTOR | 220kΩ,1/16W |
| R1010 | NRSA6AJ-334W | MG RESISTOR | 330kΩ,1/16W |
| R1011 | NRSA6AJ-473W | MG RESISTOR | 47kΩ,1/16W |
| R1012 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R1013 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R1014 | NRSA6AJ-473W | MG RESISTOR | 47kΩ,1/16W |
| R1015 | NRSA6AJ-473W | MG RESISTOR | 47kΩ,1/16W |
| R1016 | NRSA6AJ-473W | MG RESISTOR | 47kΩ,1/16W |
| R1017 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R1018 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R1019 | NRSA6AJ-104W | MG RESISTOR | 100kΩ,1/16W |
| R1020 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R1021 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R1023 | NRSA6AJ-104W | MG RESISTOR | 100kΩ,1/16W |
| R1024 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R1025 | NRSA6AJ-104W | MG RESISTOR | 100kΩ,1/16W |
| R1026 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R1027 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R1028 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R1029 | NRSA6AJ-473W | MG RESISTOR | 47kΩ,1/16W |
| R1030 | NRSA6AJ-472W | MG RESISTOR | 4.7kΩ,1/16W |
| R1031 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R1032 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R1033 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R1034 | NRSA6AJ-153W | MG RESISTOR | 15kΩ,1/16W |
| R1035 | NRSA6AJ-474W | MG RESISTOR | 470kΩ,1/16W |
| R1036 | NRSA6AJ-474W | MG RESISTOR | 470kΩ,1/16W |
| R1037 | NRSA6AJ-474W | MG RESISTOR | 470kΩ,1/16W |
| R1038 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R1040 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R1041 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R1042 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R1043 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R1044 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R1045 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R1046 | NRSA6AJ-473W | MG RESISTOR | 47kΩ,1/16W |
| R1047 | NRSA6AJ-473W | MG RESISTOR | 47kΩ,1/16W |
| R1048 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R1049 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R1050 | NRSA6AJ-222W | MG RESISTOR | 2.2kΩ,1/16W |
| R1051 | NRSA6AJ-222W | MG RESISTOR | 2.2kΩ,1/16W |
| R1053 | NRSA6AJ-331W | MG RESISTOR | 330Ω,1/16W |
| R1054 | NRSA6AJ-473W | MG RESISTOR | 47kΩ,1/16W |
| R1055 | NRSA6AJ-331W | MG RESISTOR | 330Ω,1/16W |
| R1056 | NRSA6AJ-331W | MG RESISTOR | 330Ω,1/16W |
| R1066 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R1067 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R1068 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R1069 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R1070 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R1071 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R1072 | NRSA6AJ-101W | MG RESISTOR | 100Ω,1/16W |
| R1073 | NRSA6AJ-101W | MG RESISTOR | 100Ω,1/16W |
| R1074 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R1075 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |

| # ⚠ REF No. | PART No. | PART NAME, DESCRIPTION | |
|---|---|---|---|
| R1076 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R1077 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R1078 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R1079 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R1080 | NRSA6AJ-104W | MG RESISTOR | 100kΩ,1/16W |
| R1081 | NRSA6AJ-223W | MG RESISTOR | 22kΩ,1/16W |
| R1082 | NRSA6AJ-393W | MG RESISTOR | 39kΩ,1/16W |
| R1083 | NRSA6AJ-104W | MG RESISTOR | 100kΩ,1/16W |
| R1084 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R1085 | NRSA6AJ-822W | MG RESISTOR | 8.2kΩ,1/16W |
| R1086 | NRSA6AJ-123W | MG RESISTOR | 12kΩ,1/16W |
| R1087 | NRSA6AJ-473W | MG RESISTOR | 47kΩ,1/16W |
| R1088 | NRSA6AJ-473W | MG RESISTOR | 47kΩ,1/16W |
| R1089 | NRSA6AJ-473W | MG RESISTOR | 47kΩ,1/16W |
| R1090 | NRSA6AJ-473W | MG RESISTOR | 47kΩ,1/16W |
| R1091 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R1092 | NRSA6AJ-222W | MG RESISTOR | 2.2kΩ,1/16W |
| R1093 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R1094 | NRSA6AJ-154W | MG RESISTOR | 150kΩ,1/16W |
| R1095 | NRSA6AJ-272W | MG RESISTOR | 2.7kΩ,1/16W |
| R1096 | NRSA6AJ-183W | MG RESISTOR | 18kΩ,1/16W |
| R1097 | NRSA6AJ-473W | MG RESISTOR | 47kΩ,1/16W |
| R1098 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R1099 | NRSA6AJ-472W | MG RESISTOR | 4.7kΩ,1/16W |
| R1100 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R1102 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R1103 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R1105 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R1110 | NRSA6AJ-473W | MG RESISTOR | 47kΩ,1/16W |
| R1111 | NRSA6AJ-473W | MG RESISTOR | 47kΩ,1/16W |
| R1112 | NRSA6AJ-473W | MG RESISTOR | 47kΩ,1/16W |
| R1113 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R1114 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R1115 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R1116 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R1117 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R1201 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R1202 | NRSA6AJ-153W | MG RESISTOR | 15kΩ,1/16W |
| R1301 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R1303 | NRSA6AJ-472W | MG RESISTOR | 4.7kΩ,1/16W |
| R1401 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R1402 | NRSA6AJ-222W | MG RESISTOR | 2.2kΩ,1/16W |
| R1403 | NRSA6AJ-222W | MG RESISTOR | 2.2kΩ,1/16W |
| R1404 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R1408 | NRSA6AJ-472W | MG RESISTOR | 4.7kΩ,1/16W |
| R1409 | NRSA6AJ-331W | MG RESISTOR | 330Ω,1/16W |
| R1410 | NRSA6AJ-331W | MG RESISTOR | 330Ω,1/16W |
| R1411 | NRSA6AJ-473W | MG RESISTOR | 47kΩ,1/16W |
| R1412 | NRSA6AJ-331W | MG RESISTOR | 330Ω,1/16W |
| R1414 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R1415 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R1416 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R1417 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R1418 | NRSA6AJ-221W | MG RESISTOR | 220Ω,1/16W |
| R1419 | NRSA6AJ-221W | MG RESISTOR | 220Ω,1/16W |
| R1420 | NRSA6AJ-473W | MG RESISTOR | 47kΩ,1/16W |
| R1422 | NRSA6AJ-332W | MG RESISTOR | 3.3kΩ,1/16W |
| R1423 | NRSA6AJ-332W | MG RESISTOR | 3.3kΩ,1/16W |
| R1424 | NRSA6AJ-332W | MG RESISTOR | 3.3kΩ,1/16W |
| R1425 | NRVA6AD-753W | CMF RESISTOR | 75kΩ,1/16W |
| R1426 | NRSA6AJ-334W | MG RESISTOR | 330kΩ,1/16W |
| R1429 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R1430 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |

| # ⚠ REF No. | PART No. | PART NAME, DESCRIPTION | |
|---|---|---|---|
| R1437 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R1438 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R1439 | NRSA6AJ-332W | MG RESISTOR | 3.3kΩ,1/16W |
| R1440 | NRSA6AJ-332W | MG RESISTOR | 3.3kΩ,1/16W |
| R1441 | NRSA6AJ-332W | MG RESISTOR | 3.3kΩ,1/16W |
| R1442 | NRSA6AJ-332W | MG RESISTOR | 3.3kΩ,1/16W |
| R1443 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R1444 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R1445 | NRSA6AJ-101W | MG RESISTOR | 100Ω,1/16W |
| R2001 | NRSA6AJ-104W | MG RESISTOR | 100kΩ,1/16W |
| R2002 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R2003 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R2005 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R2007 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R2008 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R2009 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R2010 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R2011 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R2012 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R2013 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R2014 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R2015 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| R2017 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R2018 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R2019 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R2020 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R3001 | NRSA6AJ-151W | MG RESISTOR | 150Ω,1/16W |
| R3002 | NRSA6AJ-272W | MG RESISTOR | 2.7kΩ,1/16W |
| R3003 | NRSA6AJ-151W | MG RESISTOR | 150Ω,1/16W |
| R3004 | NRSA6AJ-562W | MG RESISTOR | 5.6kΩ,1/16W |
| R3005 | NRSA6AJ-222W | MG RESISTOR | 2.2kΩ,1/16W |
| R3006 | NRSA6AJ-222W | MG RESISTOR | 2.2kΩ,1/16W |
| R3007 | NRSA6AJ-224W | MG RESISTOR | 220kΩ,1/16W |
| R3008 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R3009 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R3015 | NRSA6AJ-242W | MG RESISTOR | 2.4kΩ,1/16W |
| R3016 | NRSA6AJ-392W | MG RESISTOR | 3.9kΩ,1/16W |
| R3017 | NRSA6AJ-392W | MG RESISTOR | 3.9kΩ,1/16W |
| R3018 | NRVA6AD-560W | CMF RESISTOR | 56Ω,1/16W |
| R3019 | NRVA6AD-560W | CMF RESISTOR | 56Ω,1/16W |
| R3020 | NRVA6AD-560W | CMF RESISTOR | 56Ω,1/16W |
| R3021 | NRVA6AD-560W | CMF RESISTOR | 56Ω,1/16W |
| R3022 | NRVA6AD-512W | CMF RESISTOR | 5.1kΩ,1/16W |
| R3023 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R3024 | NRSA6AJ-105W | MG RESISTOR | 1MΩ,1/16W |
| R3025 | NRSA6AJ-222W | MG RESISTOR | 2.2kΩ,1/16W |
| R3026 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R3027 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R3029 | NRSA6AJ-561W | MG RESISTOR | 560Ω,1/16W |
| R3030 | NRSA6AJ-392W | MG RESISTOR | 3.9kΩ,1/16W |
| R3034 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R3044 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R3051 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R3052 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R3053 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R3054 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R3055 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R3059 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R3060 | NRSA6AJ-272W | MG RESISTOR | 2.7kΩ,1/16W |
| R3061 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R3062 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R3063 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R3064 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R3311 | NRVA6AD-222W | CMF RESISTOR | 2.2kΩ,1/16W |
| R3313 | NRSA6AJ-105W | MG RESISTOR | 1MΩ,1/16W |
| R3314 | NRSA6AJ-101W | MG RESISTOR | 100Ω,1/16W |
| R3315 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R3318 | NRSA6AJ-224W | MG RESISTOR | 220kΩ,1/16W |
| R3319 | NRSA6AJ-224W | MG RESISTOR | 220kΩ,1/16W |
| R3331 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R3332 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R3333 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R3334 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R3335 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R3336 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R3337 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R3338 | NRSA6AJ-220W | MG RESISTOR | 22Ω,1/16W |
| R3339 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R3340 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R3341 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R3701 | NRSA6AJ-225W | MG RESISTOR | 2.2MΩ,1/16W |
| R3702 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R3703 | NRSA6AJ-203W | MG RESISTOR | 20kΩ,1/16W |
| R3704 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R3706 | NRSA6AJ-121W | MG RESISTOR | 120Ω,1/16W |
| R3707 | NRSA6AJ-121W | MG RESISTOR | 120Ω,1/16W |
| R3708 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R3709 | NRSA6AJ-224W | MG RESISTOR | 220kΩ,1/16W |
| R3710 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R3712 | NRSA6AJ-680W | MG RESISTOR | 68Ω,1/16W |
| R3713 | NRSA6AJ-680W | MG RESISTOR | 68Ω,1/16W |
| R3714 | NRSA6AJ-101W | MG RESISTOR | 100Ω,1/16W |
| R3715 | NRSA6AJ-472W | MG RESISTOR | 4.7kΩ,1/16W |
| R3716 | NRSA6AJ-472W | MG RESISTOR | 4.7kΩ,1/16W |
| R3901 | NRVA6AD-821W | CMF RESISTOR | 820Ω,1/16W |
| R3902 | NRVA6AD-273W | CMF RESISTOR | 27kΩ,1/16W |
| R3903 | NRVA6AD-153W | CMF RESISTOR | 15kΩ,1/16W |
| R3904 | NRVA6AD-821W | CMF RESISTOR | 820Ω,1/16W |
| R3951 | NRVA6AD-561W | CMF RESISTOR | 560Ω,1/16W |
| R3953 | NRVA6AD-152W | CMF RESISTOR | 1.5kΩ,1/16W |
| R3954 | NRSA6AJ-222W | MG RESISTOR | 2.2kΩ,1/16W |
| R3955 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R3956 | NRSA6AJ-474W | MG RESISTOR | 470kΩ,1/16W |
| R3961 | NRVA6AD-561W | CMF RESISTOR | 560Ω,1/16W |
| R3962 | NRSA6AJ-822W | MG RESISTOR | 8.2kΩ,1/16W |
| R3963 | NRVA6AD-182W | CMF RESISTOR | 1.8kΩ,1/16W |
| R3964 | NRSA6AJ-183W | MG RESISTOR | 18kΩ,1/16W |
| R3965 | NRSA6AJ-183W | MG RESISTOR | 18kΩ,1/16W |
| R3966 | NRSA6AJ-681W | MG RESISTOR | 680Ω,1/16W |
| R3967 | NRSA6AJ-821W | MG RESISTOR | 820Ω,1/16W |
| R3968 | NRSA6AJ-821W | MG RESISTOR | 820Ω,1/16W |
| R3969 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R4101 | NRSA6AJ-104W | MG RESISTOR | 100kΩ,1/16W |
| R4203 | NRSA6AJ-220W | MG RESISTOR | 22Ω,1/16W |
| R4204 | NRSA6AJ-223W | MG RESISTOR | 22kΩ,1/16W |
| R4211 | NRSA6AJ-221W | MG RESISTOR | 220Ω,1/16W |
| R4212 | NRSA6AJ-221W | MG RESISTOR | 220Ω,1/16W |
| R4213 | NRSA6AJ-221W | MG RESISTOR | 220Ω,1/16W |
| R4214 | NRSA6AJ-221W | MG RESISTOR | 220Ω,1/16W |
| R4215 | NRSA6AJ-221W | MG RESISTOR | 220Ω,1/16W |
| R4216 | NRSA6AJ-221W | MG RESISTOR | 220Ω,1/16W |
| R4217 | NRSA6AJ-221W | MG RESISTOR | 220Ω,1/16W |
| R4218 | NRSA6AJ-221W | MG RESISTOR | 220Ω,1/16W |
| R4219 | NRSA6AJ-221W | MG RESISTOR | 220Ω,1/16W |
| R4220 | NRSA6AJ-221W | MG RESISTOR | 220Ω,1/16W |
| R4302 | NRSA6AJ-330W | MG RESISTOR | 33Ω,1/16W |

| # ⚠ REF No. | PART No. | PART NAME, DESCRIPTION | |
|---|---|---|---|
| R4303 | NRSA6AJ-101W | MG RESISTOR | 100Ω,1/16W |
| R4304 | NRSA6AJ-101W | MG RESISTOR | 100Ω,1/16W |
| R4305 | NRSA6AJ-101W | MG RESISTOR | 100Ω,1/16W |
| R4306 | NRSA6AJ-101W | MG RESISTOR | 100Ω,1/16W |
| R4307 | NRSA6AJ-220W | MG RESISTOR | 22Ω,1/16W |
| R4308 | NRSA6AJ-220W | MG RESISTOR | 22Ω,1/16W |
| R4313 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R4314 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R4315 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R4316 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R4317 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R4318 | NRSA6AJ-101W | MG RESISTOR | 100Ω,1/16W |
| R4320 | NRSA6AJ-220W | MG RESISTOR | 22Ω,1/16W |
| R4321 | NRSA6AJ-220W | MG RESISTOR | 22Ω,1/16W |
| R4322 | NRSA6AJ-333W | MG RESISTOR | 33kΩ,1/16W |
| R4323 | NRSA6AJ-333W | MG RESISTOR | 33kΩ,1/16W |
| R4328 | NRSA6AJ-220W | MG RESISTOR | 22Ω,1/16W |
| R4329 | NRSA6AJ-220W | MG RESISTOR | 22Ω,1/16W |
| R4330 | NRSA6AJ-470W | MG RESISTOR | 47Ω,1/16W |
| R4331 | NRSA6AJ-220W | MG RESISTOR | 22Ω,1/16W |
| R4332 | NRSA6AJ-220W | MG RESISTOR | 22Ω,1/16W |
| R4333 | NRSA6AJ-220W | MG RESISTOR | 22Ω,1/16W |
| R4334 | NRSA6AJ-220W | MG RESISTOR | 22Ω,1/16W |
| R4335 | NRSA6AJ-220W | MG RESISTOR | 22Ω,1/16W |
| R4337 | NRSA6AJ-152W | MG RESISTOR | 1.5kΩ,1/16W |
| R4342 | NRSA6AJ-220W | MG RESISTOR | 22Ω,1/16W |
| R4343 | NRSA6AJ-220W | MG RESISTOR | 22Ω,1/16W |
| R4344 | NRSA6AJ-220W | MG RESISTOR | 22Ω,1/16W |
| R4345 | NRSA6AJ-220W | MG RESISTOR | 22Ω,1/16W |
| R4346 | NRSA6AJ-220W | MG RESISTOR | 22Ω,1/16W |
| R4347 | NRSA6AJ-220W | MG RESISTOR | 22Ω,1/16W |
| R4348 | NRSA6AJ-220W | MG RESISTOR | 22Ω,1/16W |
| R4349 | NRSA6AJ-220W | MG RESISTOR | 22Ω,1/16W |
| R4356 | NRVA6AD-272W | CMF RESISTOR | 2.7kΩ,1/16W |
| R4358 | NRVA6AD-272W | CMF RESISTOR | 2.7kΩ,1/16W |
| R4360 | NRVA6AD-272W | CMF RESISTOR | 2.7kΩ,1/16W |
| R4362 | NRVA6AD-272W | CMF RESISTOR | 2.7kΩ,1/16W |
| R4363 | NRSA6AJ-153W | MG RESISTOR | 15kΩ,1/16W |
| R4364 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R4365 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R4367 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R4369 | NRVA6AD-201W | CMF RESISTOR | 200Ω,1/16W |
| R4370 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R4371 | NRVA6AD-201W | CMF RESISTOR | 200Ω,1/16W |
| R4372 | NRSA6AJ-222W | MG RESISTOR | 2.2kΩ,1/16W |
| R4373 | NRSA6AJ-222W | MG RESISTOR | 2.2kΩ,1/16W |
| R4374 | NRVA6AD-201W | CMF RESISTOR | 200Ω,1/16W |
| R4375 | NRVA6AD-271W | CMF RESISTOR | 270Ω,1/16W |
| R4376 | NRSA6AJ-222W | MG RESISTOR | 2.2kΩ,1/16W |
| R4378 | NRSA6AJ-222W | MG RESISTOR | 2.2kΩ,1/16W |
| R4379 | NRVA6AD-333W | CMF RESISTOR | 33kΩ,1/16W |
| R4383 | NRVA6AD-271W | CMF RESISTOR | 270Ω,1/16W |
| R4386 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R4387 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R4388 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R4389 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R4390 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R4805 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R4806 | NRSA6AJ-823W | MG RESISTOR | 82kΩ,1/16W |
| R4807 | NRSA6AJ-683W | MG RESISTOR | 68kΩ,1/16W |
| R4808 | NRSA6AJ-243W | MG RESISTOR | 24kΩ,1/16W |
| R4809 | NRSA6AJ-561W | MG RESISTOR | 560Ω,1/16W |
| R4810 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |

| # ⚠ REF No. | PART No. | PART NAME, DESCRIPTION | |
|---|---|---|---|
| R4811 | NRSA6AJ-684W | MG RESISTOR | 680kΩ,1/16W |
| R4812 | NRSA6AJ-153W | MG RESISTOR | 15kΩ,1/16W |
| R4814 | NRSA6AJ-105W | MG RESISTOR | 1MΩ,1/16W |
| R4815 | NRSA6AJ-472W | MG RESISTOR | 4.7kΩ,1/16W |
| R4816 | NRSA6AJ-185W | MG RESISTOR | 1.8MΩ,1/16W |
| R4819 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R4820 | NRSA6AJ-104W | MG RESISTOR | 100kΩ,1/16W |
| R4821 | NRSA6AJ-104W | MG RESISTOR | 100kΩ,1/16W |
| R4822 | NRSA6AJ-333W | MG RESISTOR | 33kΩ,1/16W |
| R4823 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R4824 | NRSA6AJ-472W | MG RESISTOR | 4.7kΩ,1/16W |
| R4825 | NRSA6AJ-183W | MG RESISTOR | 18kΩ,1/16W |
| R4826 | NRSA6AJ-333W | MG RESISTOR | 33kΩ,1/16W |
| R4828 | NRSA6AJ-122W | MG RESISTOR | 1.2kΩ,1/16W |
| R4829 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R4831 | NRSA6AJ-472W | MG RESISTOR | 4.7kΩ,1/16W |
| R4832 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R4833 | NRSA6AJ-104W | MG RESISTOR | 100kΩ,1/16W |
| R4834 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R4835 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R4836 | NRSA6AJ-151W | MG RESISTOR | 150Ω,1/16W |
| R4837 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R4838 | NRSA6AJ-470W | MG RESISTOR | 47Ω,1/16W |
| R4839 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R4840 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R4841 | NRSA6AJ-564W | MG RESISTOR | 560kΩ,1/16W |
| R4844 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R4846 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R4854 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R4856 | NRSA6AJ-6R8W | MG RESISTOR | 6.8Ω,1/16W |
| R4857 | NRSA6AJ-6R8W | MG RESISTOR | 6.8Ω,1/16W |
| R4858 | NRSA6AJ-333W | MG RESISTOR | 33kΩ,1/16W |
| R4859 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R4860 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R4862 | NRSA6AJ-6R8W | MG RESISTOR | 6.8Ω,1/16W |
| R4863 | NRSA6AJ-6R8W | MG RESISTOR | 6.8Ω,1/16W |
| R4864 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R4865 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R4866 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R4867 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R4868 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R4870 | NRSA6AJ-271W | MG RESISTOR | 270Ω,1/16W |
| R4871 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R4874 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R4901 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R4902 | NRSA6AJ-683W | MG RESISTOR | 68kΩ,1/16W |
| R4903 | NRSA6AJ-823W | MG RESISTOR | 82kΩ,1/16W |
| R4904 | NRSA6AJ-243W | MG RESISTOR | 24kΩ,1/16W |
| R4905 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R4906 | NRSA6AJ-561W | MG RESISTOR | 560Ω,1/16W |
| R4907 | NRSA6AJ-684W | MG RESISTOR | 680kΩ,1/16W |
| R4908 | NRSA6AJ-153W | MG RESISTOR | 15kΩ,1/16W |
| R4909 | NRSA6AJ-185W | MG RESISTOR | 1.8MΩ,1/16W |
| R4910 | NRSA6AJ-105W | MG RESISTOR | 1MΩ,1/16W |
| R4911 | NRSA6AJ-472W | MG RESISTOR | 4.7kΩ,1/16W |
| R4912 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R4913 | NRSA6AJ-104W | MG RESISTOR | 100kΩ,1/16W |
| R4914 | NRSA6AJ-104W | MG RESISTOR | 100kΩ,1/16W |
| R4915 | NRSA6AJ-472W | MG RESISTOR | 4.7kΩ,1/16W |
| R4916 | NRSA6AJ-333W | MG RESISTOR | 33kΩ,1/16W |
| R4917 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R4918 | NRSA6AJ-183W | MG RESISTOR | 18kΩ,1/16W |
| R4919 | NRSA6AJ-122W | MG RESISTOR | 1.2kΩ,1/16W |

| # ⚠ REF No. | PART No. | PART NAME, DESCRIPTION | |
|---|---|---|---|
| R4920 | NRSA6AJ-104W | MG RESISTOR | 100kΩ,1/16W |
| R4921 | NRSA6AJ-151W | MG RESISTOR | 150Ω,1/16W |
| R4922 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R4923 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R4924 | NRSA6AJ-564W | MG RESISTOR | 560kΩ,1/16W |
| R4926 | NRSA6AJ-333W | MG RESISTOR | 33kΩ,1/16W |
| R5002 | NRVA6AD-100W | CMF RESISTOR | 10Ω,1/16W |
| R5003 | NRVA6AD-100W | CMF RESISTOR | 10Ω,1/16W |
| R5004 | NRVA6AD-100W | CMF RESISTOR | 10Ω,1/16W |
| R5005 | NRVA6AD-100W | CMF RESISTOR | 10Ω,1/16W |
| R5006 | NRVA6AD-100W | CMF RESISTOR | 10Ω,1/16W |
| R5007 | NRVA6AD-100W | CMF RESISTOR | 10Ω,1/16W |
| R5011 | NRSA6AJ-330W | MG RESISTOR | 33Ω,1/16W |
| R5013 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R5016 | NRSA6AJ-220W | MG RESISTOR | 22Ω,1/16W |
| R5017 | NRSA6AJ-220W | MG RESISTOR | 22Ω,1/16W |
| R5018 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R5021 | NRVA6AD-101W | CMF RESISTOR | 100Ω,1/16W |
| R5022 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R5023 | NRSA6AJ-220W | MG RESISTOR | 22Ω,1/16W |
| R5024 | NRSA6AJ-220W | MG RESISTOR | 22Ω,1/16W |
| R5025 | NRSA6AJ-330W | MG RESISTOR | 33Ω,1/16W |
| R5026 | NRSA6AJ-330W | MG RESISTOR | 33Ω,1/16W |
| R5027 | NRSA6AJ-330W | MG RESISTOR | 33Ω,1/16W |
| R5028 | NRSA6AJ-330W | MG RESISTOR | 33Ω,1/16W |
| R5029 | NRSA6AJ-220W | MG RESISTOR | 22Ω,1/16W |
| R6001 | NRSA6AJ-104W | MG RESISTOR | 100kΩ,1/16W |
| R6002 | NRVA6AD-183W | CMF RESISTOR | 18kΩ,1/16W |
| R6003 | NRSA6AJ-104W | MG RESISTOR | 100kΩ,1/16W |
| R6004 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R6005 | NRSA6AJ-224W | MG RESISTOR | 220kΩ,1/16W |
| R6006 | NRSA6AJ-104W | MG RESISTOR | 100kΩ,1/16W |
| R6007 | NRSA6AJ-104W | MG RESISTOR | 100kΩ,1/16W |
| R6009 | NRSA6AJ-222W | MG RESISTOR | 2.2kΩ,1/16W |
| R6010 | NRSA6AJ-104W | MG RESISTOR | 100kΩ,1/16W |
| R6011 | NRSA6AJ-104W | MG RESISTOR | 100kΩ,1/16W |
| R6012 | NRVA6AD-823W | CMF RESISTOR | 82kΩ,1/16W |
| R6013 | NRVA6AD-473W | CMF RESISTOR | 47kΩ,1/16W |
| ⚠ R6017 | NRSA63J-102X | MG RESISTOR | 1kΩ,1/16W |
| R6018 | NRSA63J-471X | MG RESISTOR | 470Ω,1/16W |
| RA1001 | NRZ0034-102W | NETWORK RESISTOR | 1kΩ |
| RA1002 | NRZ0034-102W | NETWORK RESISTOR | 1kΩ |
| RA1003 | NRZ0034-102W | NETWORK RESISTOR | 1kΩ |
| RA1004 | NRZ0034-102W | NETWORK RESISTOR | 1kΩ |
| RA1005 | NRZ0034-102W | NETWORK RESISTOR | 1kΩ |
| RA1006 | NRZ0034-104W | NETWORK RESISTOR | 100kΩ |
| RA1007 | NRZ0034-104W | NETWORK RESISTOR | 100kΩ |
| RA1401 | NRZ0034-473W | NETWORK RESISTOR | 47kΩ |
| RA1402 | NRZ0034-102W | NETWORK RESISTOR | 1kΩ |
| RA1403 | NRZ0034-102W | NETWORK RESISTOR | 1kΩ |
| RA4301 | NRZ0034-221W | NETWORK RESISTOR | 220Ω |
| RA4302 | NRZ0034-221W | NETWORK RESISTOR | 220Ω |
| RA4303 | NRZ0034-221W | NETWORK RESISTOR | 220Ω |
| RA4304 | NRZ0034-221W | NETWORK RESISTOR | 220Ω |
| RA4305 | NRZ0034-221W | NETWORK RESISTOR | 220Ω |
| RA4306 | NRZ0034-221W | NETWORK RESISTOR | 220Ω |
| RA4307 | NRZ0034-221W | NETWORK RESISTOR | 220Ω |
| RA4308 | NRZ0034-221W | NETWORK RESISTOR | 220Ω |
| C1001 | NBE90JM-106X | T CAPACITOR | 10μF,6.3V |
| C1002 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C1003 | NBE90JM-106X | T CAPACITOR | 10μF,6.3V |
| C1004 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C1005 | NBE90JM-106X | T CAPACITOR | 10μF,6.3V |
| C1006 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C1007 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C1008 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C1009 | NDCA1HJ-130W | CAPACITOR | 13pF,50V |
| C1010 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C1011 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C1012 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C1013 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C1014 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C1015 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C1016 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C1017 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C1018 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C1019 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C1020 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C1021 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C1025 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C1026 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C1027 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C1028 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C1029 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C1030 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C1031 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C1032 | NCB30JK-105X | CAPACITOR | 1μF,6.3V |
| C1201 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C1202 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C1204 | NCB21AK-105X | CAPACITOR | 1μF,10V |
| C1302 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C1401 | NBE90JM-106X | T CAPACITOR | 10μF,6.3V |
| C1402 | NBE90JM-106X | T CAPACITOR | 10μF,6.3V |
| C1405 | NCFA1AZ-104W | CAPACITOR | 0.1μF,10V |
| C1406 | NCFA1AZ-104W | CAPACITOR | 0.1μF,10V |
| C1408 | NCFA1AZ-104W | CAPACITOR | 0.1μF,10V |
| C1409 | NCFA1AZ-104W | CAPACITOR | 0.1μF,10V |
| C1410 | NCFA1AZ-104W | CAPACITOR | 0.1μF,10V |
| C1411 | NCFA1AZ-104W | CAPACITOR | 0.1μF,10V |
| C1412 | NCFA1AZ-104W | CAPACITOR | 0.1μF,10V |
| C1413 | NCFA1AZ-104W | CAPACITOR | 0.1μF,10V |
| C1414 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C1415 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C1416 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C1417 | NCBA1CK-223W | CAPACITOR | 0.022μF,16V |
| C1418 | NCBA1CK-223W | CAPACITOR | 0.022μF,16V |
| C1419 | NCBA1CK-223W | CAPACITOR | 0.022μF,16V |
| C1420 | NCBA1CK-223W | CAPACITOR | 0.022μF,16V |
| C2003 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C2004 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C2005 | NCBA1HK-102W | CAPACITOR | 0.001μF,50V |
| C2006 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C2007 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C2008 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C2009 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C2010 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C2011 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C2012 | NCBA1HK-102W | CAPACITOR | 0.001μF,50V |
| C2013 | NCBA1HK-102W | CAPACITOR | 0.001μF,50V |
| C2014 | NCBA1HK-102W | CAPACITOR | 0.001μF,50V |
| C2015 | NCBA1HK-102W | CAPACITOR | 0.001μF,50V |
| C2016 | NCBA1HK-102W | CAPACITOR | 0.001μF,50V |
| C2017 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C2018 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C2019 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C2020 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |

| # ⚠ REF No. | PART No. | PART NAME, DESCRIPTION | |
|---|---|---|---|
| C2021 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C2022 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C2023 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C2024 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C2025 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C2026 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C2027 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C2028 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C2029 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C2030 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C2031 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C2032 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C2033 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C2034 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C2035 | NCB11CK-105X | CAPACITOR | 1µF,16V |
| C2036 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C2037 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C2038 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C2039 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C2040 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C2041 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C2042 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C2043 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C3002 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C3005 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C3006 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C3008 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C3009 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C3010 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C3012 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C3014 | NDCA1HJ-330W | CAPACITOR | 33pF,50V |
| C3015 | NCBA1HK-102W | CAPACITOR | 0.001µF,50V |
| C3016 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C3017 | NCB30JK-105X | CAPACITOR | 1µF,6.3V |
| C3018 | NCBA1EK-472W | CAPACITOR | 0.0047µF,25V |
| C3019 | NDCA1EJ-271W | CAPACITOR | 270pF,25V |
| C3021 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C3022 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C3023 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C3024 | NDCA1HJ-100W | CAPACITOR | 10pF,50V |
| C3025 | NDCA1HJ-100W | CAPACITOR | 10pF,50V |
| C3026 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C3027 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C3028 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C3029 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C3030 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C3031 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C3032 | NDCA1HJ-151W | CAPACITOR | 150pF,50V |
| C3034 | NCBA1AK-473W | CAPACITOR | 0.047µF,10V |
| C3035 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C3037 | NCB30JK-105X | CAPACITOR | 1µF,6.3V |
| C3038 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C3039 | NBE20JM-106X | T CAPACITOR | 10µF,6.3V |
| C3040 | NBE20JM-106X | T CAPACITOR | 10µF,6.3V |
| C3041 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C3042 | NCB30JK-105X | CAPACITOR | 1µF,6.3V |
| C3044 | NBE20JM-106X | T CAPACITOR | 10µF,6.3V |
| C3045 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C3046 | NCB30JK-105X | CAPACITOR | 1µF,6.3V |
| C3048 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C3052 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C3053 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C3318 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C3319 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C3320 | NCB21AK-105X | CAPACITOR | 1µF,10V |
| C3325 | NDCA1HJ-9R0W | CAPACITOR | 9pF,50V |
| C3326 | NDCA1HJ-9R0W | CAPACITOR | 9pF,50V |
| C3328 | NDCA1HJ-470W | CAPACITOR | 47pF,50V |
| C3329 | NCBA1HK-102W | CAPACITOR | 0.001µF,50V |
| C3330 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C3331 | NCBA1HK-102W | CAPACITOR | 0.001µF,50V |
| C3332 | NDCA1HJ-390W | CAPACITOR | 39pF,50V |
| C3701 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C3702 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C3703 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C3704 | NBE20JM-106X | T CAPACITOR | 10µF,6.3V |
| C3707 | NBE20GM-226X | T CAPACITOR | 22µF,4.0V |
| C3708 | NBE40GM-107X | T CAPACITOR | 100µF,4.0V |
| C3709 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C3710 | NCFA1AZ-104W | CAPACITOR | 0.1µF,10V |
| C3711 | NCFA1AZ-104W | CAPACITOR | 0.1µF,10V |
| C3712 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C3713 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C3714 | NBE20JM-106X | T CAPACITOR | 10µF,6.3V |
| C3715 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C3716 | NCB30JK-105X | CAPACITOR | 1µF,6.3V |
| C3721 | NBE20JM-226X | T CAPACITOR | 22µF,6.3V |
| C3722 | NCF31AZ-105X | CAPACITOR | 1µF,10V |
| C3723 | NBE20JM-106X | T CAPACITOR | 10µF,6.3V |
| C3724 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C3901 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C3902 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C3903 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C3904 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C3905 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C3906 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C3907 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C3908 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C3909 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C3910 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C3911 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C3912 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C3913 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C3914 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C3916 | NBE20JM-106X | T CAPACITOR | 10µF,6.3V |
| C3917 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C3919 | NCB21CK-105X | CAPACITOR | 1µF,16V |
| C3920 | NCB21CK-105X | CAPACITOR | 1µF,16V |
| C3951 | NBE90JM-106X | T CAPACITOR | 10µF,6.3V |
| C3952 | NCB30JK-105X | CAPACITOR | 1µF,6.3V |
| C3954 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C3955 | NDCA1HJ-3R0W | CAPACITOR | 3pF,50V |
| C3956 | NDCA1HJ-5R0W | CAPACITOR | 5pF,50V |
| C3957 | NDCA1HJ-330W | CAPACITOR | 33pF,50V |
| C3958 | NCB20JM-475X | CAPACITOR | 4.7µF,6.3V |
| C3959 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C3961 | NCBA1HK-102W | CAPACITOR | 0.001µF,50V |
| C3962 | NDCA1HJ-3R0W | CAPACITOR | 3pF,50V |
| C3963 | NDCA1HJ-5R0W | CAPACITOR | 5pF,50V |
| C3964 | NDCA1HJ-330W | CAPACITOR | 33pF,50V |
| C3965 | NCBA1HK-102W | CAPACITOR | 0.001µF,50V |
| C3967 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C3968 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C4101 | NCF31EZ-104X | CAPACITOR | 0.1µF,25V |
| C4102 | NBP41EM-475X | T CAPACITOR | 4.7µF,25V |
| C4103 | NCF31EZ-104X | CAPACITOR | 0.1µF,25V |

| # ⚠ REF No. | PART No. | PART NAME, DESCRIPTION | |
|---|---|---|---|
| C4104 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C4105 | NBE41AM-476X | T CAPACITOR | 47μF,10V |
| C4106 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C4107 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C4108 | NBP21VM-105X | T CAPACITOR | 1μF,35V |
| C4109 | NCF31EZ-104X | CAPACITOR | 0.1μF,25V |
| C4201 | NBE40JM-476X | T CAPACITOR | 47μF,6.3V |
| C4202 | NBE20GM-476X | T CAPACITOR | 47μF,4.0V |
| C4203 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C4204 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C4205 | NBE20GM-476X | T CAPACITOR | 47μF,4.0V |
| C4207 | NBE90JM-106X | T CAPACITOR | 10μF,6.3V |
| C4208 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C4209 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C4210 | NCB30JK-105X | CAPACITOR | 1μF,6.3V |
| C4211 | NCB30JK-105X | CAPACITOR | 1μF,6.3V |
| C4212 | NCBA1CK-123W | CAPACITOR | 0.012μF,16V |
| C4213 | NCB30JK-105X | CAPACITOR | 1μF,6.3V |
| C4214 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C4215 | NCB30JK-105X | CAPACITOR | 1μF,6.3V |
| C4216 | NCB30JK-105X | CAPACITOR | 1μF,6.3V |
| C4217 | NCB30JK-105X | CAPACITOR | 1μF,6.3V |
| C4218 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C4219 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C4220 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C4221 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C4222 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C4223 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C4224 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C4225 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C4226 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C4301 | NCB30JK-105X | CAPACITOR | 1μF,6.3V |
| C4302 | NBE90JM-106X | T CAPACITOR | 10μF,6.3V |
| C4303 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C4304 | NBE90JM-106X | T CAPACITOR | 10μF,6.3V |
| C4306 | NCB30JK-105X | CAPACITOR | 1μF,6.3V |
| C4307 | NBE90JM-106X | T CAPACITOR | 10μF,6.3V |
| C4308 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C4309 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C4310 | NBG40GM-226X | T CAPACITOR | 22μF,4.0V |
| C4312 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C4313 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C4315 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C4316 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C4317 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C4318 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C4319 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C4320 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C4321 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C4322 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C4323 | NBE90JM-106X | T CAPACITOR | 10μF,6.3V |
| C4351 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C4352 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C4353 | NCB30JK-105X | CAPACITOR | 1μF,6.3V |
| C4355 | NCB30JK-105X | CAPACITOR | 1μF,6.3V |
| C4357 | NCB30JK-105X | CAPACITOR | 1μF,6.3V |
| C4359 | NCB30JK-105X | CAPACITOR | 1μF,6.3V |
| C4361 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C4362 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C4363 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C4364 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C4365 | NBE90JM-106X | T CAPACITOR | 10μF,6.3V |
| C4401 | NBE90GM-226X | T CAPACITOR | 22μF,4.0V |

| # ⚠ REF No. | PART No. | PART NAME, DESCRIPTION | |
|---|---|---|---|
| C4402 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C4801 | NBE21AM-106X | T CAPACITOR | 10μF,10V |
| C4802 | NCFA1AZ-104W | CAPACITOR | 0.1μF,10V |
| C4803 | NBE90JM-106X | T CAPACITOR | 10μF,6.3V |
| C4804 | NCFA1AZ-104W | CAPACITOR | 0.1μF,10V |
| C4805 | NCFA1AZ-104W | CAPACITOR | 0.1μF,10V |
| C4806 | NCFA1AZ-104W | CAPACITOR | 0.1μF,10V |
| C4808 | NCB30JK-105X | CAPACITOR | 1μF,6.3V |
| C4809 | NCFA1AZ-104W | CAPACITOR | 0.1μF,10V |
| C4810 | NCFA1HZ-103W | CAPACITOR | 0.01μF,50V |
| C4811 | NCFA1HZ-103W | CAPACITOR | 0.01μF,50V |
| C4812 | NCFA1AZ-104W | CAPACITOR | 0.1μF,10V |
| C4813 | NCFA1AZ-104W | CAPACITOR | 0.1μF,10V |
| C4814 | NCFA1AZ-104W | CAPACITOR | 0.1μF,10V |
| C4818 | NCFA1AZ-104W | CAPACITOR | 0.1μF,10V |
| C4819 | NCB30JK-105X | CAPACITOR | 1μF,6.3V |
| C4820 | NCFA1AZ-104W | CAPACITOR | 0.1μF,10V |
| C4821 | NCFA1AZ-104W | CAPACITOR | 0.1μF,10V |
| C4851 | NBE90JM-106X | T CAPACITOR | 10μF,6.3V |
| C4852 | NCFA1AZ-104W | CAPACITOR | 0.1μF,10V |
| C4853 | NBE91AM-335X | T CAPACITOR | 3.3μF,10V |
| C4854 | NBE21AM-106X | T CAPACITOR | 10μF,10V |
| C4855 | NCB31CK-104X | CAPACITOR | 0.1μF,16V |
| C4858 | NDCA1HJ-330W | CAPACITOR | 33pF,50V |
| C4859 | NCBA1HK-102W | CAPACITOR | 0.001μF,50V |
| C4860 | NCBA1HK-102W | CAPACITOR | 0.001μF,50V |
| C4861 | NCBA1HK-102W | CAPACITOR | 0.001μF,50V |
| C4862 | NCBA1HK-102W | CAPACITOR | 0.001μF,50V |
| C4863 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C4864 | NBE90JM-106X | T CAPACITOR | 10μF,6.3V |
| C4865 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C4901 | NBE90JM-106X | T CAPACITOR | 10μF,6.3V |
| C4902 | NCFA1AZ-104W | CAPACITOR | 0.1μF,10V |
| C4903 | NCFA1AZ-104W | CAPACITOR | 0.1μF,10V |
| C4906 | NCB30JK-105X | CAPACITOR | 1μF,6.3V |
| C4907 | NCFA1AZ-104W | CAPACITOR | 0.1μF,10V |
| C4908 | NCFA1HZ-103W | CAPACITOR | 0.01μF,50V |
| C4909 | NCFA1AZ-104W | CAPACITOR | 0.1μF,10V |
| C4910 | NCFA1HZ-103W | CAPACITOR | 0.01μF,50V |
| C4911 | NCFA1HZ-103W | CAPACITOR | 0.01μF,50V |
| C4912 | NCBA1HK-102W | CAPACITOR | 0.001μF,50V |
| C4913 | NCFA1AZ-104W | CAPACITOR | 0.1μF,10V |
| C4914 | NCFA1AZ-104W | CAPACITOR | 0.1μF,10V |
| C4915 | NCBA1HK-331W | CAPACITOR | 330pF,50V |
| C4917 | NCBA1HK-331W | CAPACITOR | 330pF,50V |
| C4919 | NCB30JK-105X | CAPACITOR | 1μF,6.3V |
| C4920 | NCFA1AZ-104W | CAPACITOR | 0.1μF,10V |
| C4921 | NCFA1AZ-104W | CAPACITOR | 0.1μF,10V |
| C4922 | NBE21AM-106X | T CAPACITOR | 10μF,10V |
| C4923 | NCFA1AZ-104W | CAPACITOR | 0.1μF,10V |
| C5001 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C5002 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C5003 | NBE40JM-476X | T CAPACITOR | 47μF,6.3V |
| C5004 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C5005 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C5006 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C5007 | NCB30JK-105X | CAPACITOR | 1μF,6.3V |
| C5008 | NBE90JM-106X | T CAPACITOR | 10μF,6.3V |
| C5009 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C5011 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C5012 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C5013 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C5014 | NBM90JM-226X | T CAPACITOR | 22μF,6.3V |

| # ⚠ REF No. | PART No. | PART NAME, DESCRIPTION | |
|---|---|---|---|
| C5017 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C5018 | NCB30JK-105X | CAPACITOR | 1µF,6.3V |
| C5019 | NCB30JK-105X | CAPACITOR | 1µF,6.3V |
| C5221 | NCF31EZ-104X | CAPACITOR | 0.1µF,25V |
| C5222 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C5223 | NBP41EM-475X | T CAPACITOR | 4.7µF,25V |
| C5224 | NBE41AM-476X | T CAPACITOR | 47µF,10V |
| C5225 | NBE41AM-476X | T CAPACITOR | 47µF,10V |
| C5227 | NCF31EZ-104X | CAPACITOR | 0.1µF,25V |
| C5228 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C5230 | NBE41AM-476X | T CAPACITOR | 47µF,10V |
| C5231 | NBE41AM-476X | T CAPACITOR | 47µF,10V |
| C5232 | NBE41AM-476X | T CAPACITOR | 47µF,10V |
| C6001 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C6002 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C6003 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C6004 | NBE90JM-106X | T CAPACITOR | 10µF,6.3V |
| C6005 | NBP21CM-685X | T CAPACITOR | 6.8µF,16V |
| C6006 | NCF31AZ-105X | CAPACITOR | 1µF,10V |
| C6007 | NBE90JM-106X | T CAPACITOR | 10µF,6.3V |
| C6008 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C6009 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| L1001 | NQR0265-001X | FERRITE BEAD | |
| L1002 | NQR0265-001X | FERRITE BEAD | |
| L1003 | NQR0265-001X | FERRITE BEAD | |
| L1201 | NQL315K-100X | COIL | 10µH |
| L1401 | NQR0006-001X | FERRITE BEAD | |
| L1402 | NRSA02J-0R0X | MG RESISTOR | 0Ω,1/10W |
| L2001 | NQR0006-001X | FERRITE BEAD | |
| L3001 | NQR0006-001X | FERRITE BEAD | |
| L3002 | NQR0006-001X | FERRITE BEAD | |
| L3003 | NQR0006-001X | FERRITE BEAD | |
| L3004 | NQR0006-001X | FERRITE BEAD | |
| L3005 | NQR0006-001X | FERRITE BEAD | |
| L3006 | NQR0006-001X | FERRITE BEAD | |
| L3009 | NQL085J-2R2X | COIL | 2.2µH |
| L3305 | NQR0006-001X | FERRITE BEAD | |
| L3312 | NQL085J-120X | COIL | 12µH |
| L3313 | NQL085J-100X | COIL | 10µH |
| L3701 | NQL302N-100X | COIL | 10µH |
| L3901 | NQR0006-001X | FERRITE BEAD | |
| L3902 | NQR0305-001X | FERRITE BEAD | |
| L3903 | NQR0305-001X | FERRITE BEAD | |
| L3951 | NQL302N-100X | COIL | 10µH |
| L3952 | NQL085J-6R8X | COIL | 6.8µH |
| L3953 | NQL085J-6R8X | COIL | 6.8µH |
| L4101 | NQR0129-002X | FERRITE BEAD | |
| L4102 | NQL045K-100X | COIL | 10µH |
| L4103 | NQR0129-002X | FERRITE BEAD | |
| L4104 | NQL045K-100X | COIL | 10µH |
| L4201 | NQR0265-001X | FERRITE BEAD | |
| L4202 | NQL402M-100X | COIL | 10µH |
| L4203 | NQR0265-001X | FERRITE BEAD | |
| L4301 | NQR0265-001X | FERRITE BEAD | |
| L4302 | NQR0265-001X | FERRITE BEAD | |
| L4303 | NQR0265-001X | FERRITE BEAD | |
| L4305 | NQR0265-001X | FERRITE BEAD | |
| L4306 | NQR0129-002X | FERRITE BEAD | |
| L4307 | NQR0265-001X | FERRITE BEAD | |
| L4351 | NQL402M-100X | COIL | 10µH |
| L4401 | NQR0006-001X | FERRITE BEAD | |
| L4801 | NQL302N-100X | COIL | 10µH |
| L4802 | NQL302N-100X | COIL | 10µH |

| # ⚠ REF No. | PART No. | PART NAME, DESCRIPTION | |
|---|---|---|---|
| L4851 | NQR0129-002X | FERRITE BEAD | |
| L4852 | NQL315K-100X | COIL | 10µH |
| L4853 | NQL315K-100X | COIL | 10µH |
| L4901 | NQL315K-100X | COIL | 10µH |
| L4902 | NQL315K-100X | COIL | 10µH |
| L5001 | NQR0129-002X | FERRITE BEAD | |
| L5002 | NQL045K-100X | COIL | 10µH |
| L5003 | NQR0129-002X | FERRITE BEAD | |
| L5004 | NQR0129-002X | FERRITE BEAD | |
| L5005 | NQR0129-002X | FERRITE BEAD | |
| L5201 | NQR0129-002X | FERRITE BEAD | |
| L5202 | NQR0129-002X | FERRITE BEAD | |
| L5203 | NQL045K-100X | COIL | 10µH |
| L5204 | NQL045K-100X | COIL | 10µH |
| L5207 | NQL402M-100X | COIL | 10µH |
| L5208 | NQL402M-100X | COIL | 10µH |
| L6001 | NQL402M-100X | COIL | 10µH |
| X1001 | NAX0450-001X | C OSCILLATOR | |
| X1002 | NAX0267-001X | CRYSTAL RESONATOR | |
| X3002 | NAX0206-001X | CRYSTAL RESONATOR | |
| X3301 | NAX0169-001X | CRYSTAL RESONATOR | |
| X4301 | NAX0332-001X | CXO | |
| WR1 | WJT0040-001A | E-CARD WIRE,CN113-EJECT CN2422 | |
| WR2 | WJV0042-001A | E-PRIMARY WIRE,TL2001-TL4202 | |
| J602 | NNZ0041-001X | D CONNECTOR | |
| CN101 | QGA1002F1-02X | CONNECTOR | |
| CN102 | QGF0513F1-20X | FPC CONNECTOR | |
| CN103 | QGA1001F1-02X | CONNECTOR | |
| CN104 | QGF0301F1-39X | FPC CONNECTOR | |
| CN105 | QGB0403M1-C0X | CONNECTOR | |
| CN106 | QGB0404M1-80X | CONNECTOR | |
| CN107 | QGB0509M1-30X | CONNECTOR | |
| CN108 | QGB0512L2-50X | CONNECTOR | |
| CN109 | QGB0507L1-80X | CONNECTOR | |
| CN110 | QGF0517F2-22X | FPC CONNECTOR | |
| CN111 | QGF0517F2-24X | FPC CONNECTOR | |
| CN112 | QGB0402J1-80X | CONNECTOR | |
| CN113 | QGF0501F1-13X | FPC CONNECTOR | |
| OT1 | LY30029-0H1A | SPACER(A) | |
| OT2 | LY30016-0P9A | SPACER-A | |

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## DSC BOARD ASSEMBLY <02>

| | | |
|---|---|---|
| PW | YB10302B-01 | DSC BOARD ASSY |
| IC8001 | JCY0121-4 | IC |
| IC8003 | M32310D5WG | IC |
| IC8004 | MBV800TA10PTA17 | IC(MICRO C ROM) |
| | or MBV800TA12PTA17 | IC(MICRO C ROM) |
| | or MBV800TA90PTA17 | IC(MICRO C ROM) |
| | or 39VF800A7CEKA02 | IC(MICRO C ROM) |
| | or 39VF800A9CEKA02 | IC(MICRO C ROM) |
| IC8006 | MM1385NN | IC |
| IC8007 | MM1385EN | IC |
| IC8008 | TC7WHU04FU | IC |
| IC8009 | TC7WH34FK | IC |
| IC8201 | JCY0145-2 | IC |
| IC8202 | MM1385GN | IC |
| IC8203 | K4S643232C-TC70 | IC |

| # ⚠ REF No. | PART No. | PART NAME, DESCRIPTION | |
|---|---|---|---|
| | or K4S643232C-TC80 | IC | |
| IC8204 | K4S641632D-TC1H | IC | |
| | or K4S641632D-TC1L | IC | |
| IC8401 | ML60851CLB | IC | |
| IC8402 | S-80842ANNP-W | IC | |
| Q8401 | DTA114EE | TRANSISTOR | |
| | or RN2101 | TRANSISTOR | |
| | or UN9111J | TRANSISTOR | |
| D8001 | RB751V-40-X | SB DIODE | |
| D8401 | 1SS355 | DIODE | |
| R8002 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8004 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8006 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8007 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R8008 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8011 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8012 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R8013 | NRSA6AJ-101W | MG RESISTOR | 100Ω,1/16W |
| R8014 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8015 | NRSA6AJ-133W | MG RESISTOR | 13kΩ,1/16W |
| R8017 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8020 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8021 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8022 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8023 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8024 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8025 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8026 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8027 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8028 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8029 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8030 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R8031 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8032 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8033 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8034 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8035 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8036 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8037 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8038 | NRSA6AJ-473W | MG RESISTOR | 47kΩ,1/16W |
| R8039 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8040 | NRSA6AJ-105W | MG RESISTOR | 1MΩ,1/16W |
| R8041 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R8042 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8043 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8044 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8045 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R8046 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R8047 | NRSA6AJ-101W | MG RESISTOR | 100Ω,1/16W |
| R8049 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8050 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8051 | NRSA6AJ-473W | MG RESISTOR | 47kΩ,1/16W |
| R8052 | NRSA6AJ-101W | MG RESISTOR | 100Ω,1/16W |
| R8053 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R8054 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8055 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8056 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8057 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8058 | NRSA6AJ-333W | MG RESISTOR | 33kΩ,1/16W |
| R8059 | NRSA6AJ-333W | MG RESISTOR | 33kΩ,1/16W |
| R8060 | NRSA6AJ-333W | MG RESISTOR | 33kΩ,1/16W |
| R8061 | NRSA6AJ-333W | MG RESISTOR | 33kΩ,1/16W |
| R8062 | NRSA6AJ-333W | MG RESISTOR | 33kΩ,1/16W |

| # ⚠ REF No. | PART No. | PART NAME, DESCRIPTION | |
|---|---|---|---|
| R8063 | NRSA6AJ-333W | MG RESISTOR | 33kΩ,1/16W |
| R8064 | NRSA6AJ-333W | MG RESISTOR | 33kΩ,1/16W |
| R8065 | NRSA6AJ-333W | MG RESISTOR | 33kΩ,1/16W |
| R8066 | NRSA6AJ-333W | MG RESISTOR | 33kΩ,1/16W |
| R8067 | NRSA6AJ-333W | MG RESISTOR | 33kΩ,1/16W |
| R8068 | NRSA6AJ-333W | MG RESISTOR | 33kΩ,1/16W |
| R8069 | NRSA6AJ-333W | MG RESISTOR | 33kΩ,1/16W |
| R8070 | NRSA6AJ-333W | MG RESISTOR | 33kΩ,1/16W |
| R8071 | NRSA6AJ-333W | MG RESISTOR | 33kΩ,1/16W |
| R8072 | NRSA6AJ-333W | MG RESISTOR | 33kΩ,1/16W |
| R8073 | NRSA6AJ-333W | MG RESISTOR | 33kΩ,1/16W |
| R8074 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8075 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8076 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8077 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8078 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8079 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8080 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8081 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8082 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8083 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8084 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8086 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R8087 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8221 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8222 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8223 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8224 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8225 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8226 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8227 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8228 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R8229 | NRSA6AJ-273W | MG RESISTOR | 27kΩ,1/16W |
| R8230 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8231 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8235 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8238 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8239 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8248 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8249 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R8401 | NRSA6AJ-105W | MG RESISTOR | 1MΩ,1/16W |
| R8402 | NRS181J-220X | MG RESISTOR | 22Ω,1/8W |
| R8403 | NRS181J-220X | MG RESISTOR | 22Ω,1/8W |
| R8404 | NRSA6AJ-152W | MG RESISTOR | 1.5kΩ,1/16W |
| R8405 | NRSA6AJ-105W | MG RESISTOR | 1MΩ,1/16W |
| R8406 | NRSA6AJ-153W | MG RESISTOR | 15kΩ,1/16W |
| R8407 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| RA8001 | NRZ0034-100W | NETWORK RESISTOR | 10Ω |
| RA8002 | NRZ0034-100W | NETWORK RESISTOR | 10Ω |
| RA8003 | NRZ0034-100W | NETWORK RESISTOR | 10Ω |
| RA8004 | NRZ0034-100W | NETWORK RESISTOR | 10Ω |
| RA8201 | NRZ0034-0R0W | NETWORK RESISTOR | 0Ω |
| RA8202 | NRZ0034-0R0W | NETWORK RESISTOR | 0Ω |
| RA8203 | NRZ0034-0R0W | NETWORK RESISTOR | 0Ω |
| RA8204 | NRZ0034-0R0W | NETWORK RESISTOR | 0Ω |
| RA8222 | NRZ0034-0R0W | NETWORK RESISTOR | 0Ω |
| RA8223 | NRZ0034-0R0W | NETWORK RESISTOR | 0Ω |
| RA8224 | NRZ0034-0R0W | NETWORK RESISTOR | 0Ω |
| RA8225 | NRZ0034-0R0W | NETWORK RESISTOR | 0Ω |
| RA8401 | NRZ0034-221W | NETWORK RESISTOR | 220Ω |
| RA8402 | NRZ0034-221W | NETWORK RESISTOR | 220Ω |
| RA8403 | NRZ0034-0R0W | NETWORK RESISTOR | 0Ω |
| RA8404 | NRZ0034-0R0W | NETWORK RESISTOR | 0Ω |

| # ⚠ REF No. | PART No. | PART NAME, DESCRIPTION | |
|---|---|---|---|
| C8006 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C8007 | NBE90JM-106X | T CAPACITOR | 10μF,6.3V |
| C8008 | NCB30JK-105X | CAPACITOR | 1μF,6.3V |
| C8009 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C8010 | NBE90JM-106X | T CAPACITOR | 10μF,6.3V |
| C8011 | NCB30JK-105X | CAPACITOR | 1μF,6.3V |
| C8017 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C8020 | NBE90JM-106X | T CAPACITOR | 10μF,6.3V |
| C8021 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C8022 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C8023 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C8024 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C8025 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C8026 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C8027 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C8028 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C8029 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C8030 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C8031 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C8032 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C8033 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C8034 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C8035 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C8036 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C8037 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C8038 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C8039 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C8040 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C8041 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C8042 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C8043 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C8044 | NBE80GM-226X | T CAPACITOR | 22μF,4.0V |
| C8045 | NBE80GM-226X | T CAPACITOR | 22μF,4.0V |
| C8046 | NBE90JM-106X | T CAPACITOR | 10μF,6.3V |
| C8048 | NBE80GM-226X | T CAPACITOR | 22μF,4.0V |
| C8049 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C8050 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C8051 | NBE80GM-226X | T CAPACITOR | 22μF,4.0V |
| C8052 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C8054 | NCB31HK-392X | CAPACITOR | 0.0039μF,50V |
| C8056 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C8057 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C8058 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C8059 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C8060 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C8062 | NCB30JK-105X | CAPACITOR | 1μF,6.3V |
| C8063 | NBE80GM-226X | T CAPACITOR | 22μF,4.0V |
| C8064 | NBE80GM-226X | T CAPACITOR | 22μF,4.0V |
| C8065 | NBE80GM-226X | T CAPACITOR | 22μF,4.0V |
| C8201 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C8202 | NBE90JM-106X | T CAPACITOR | 10μF,6.3V |
| C8203 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C8204 | NBE90JM-106X | T CAPACITOR | 10μF,6.3V |
| C8205 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C8206 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C8207 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C8208 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C8209 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C8210 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C8211 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C8212 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C8213 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C8214 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C8215 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C8216 | NCBA1AK-473W | CAPACITOR | 0.047μF,10V |
| C8217 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C8218 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C8219 | NCB30JK-105X | CAPACITOR | 1μF,6.3V |
| C8220 | NBE90JM-106X | T CAPACITOR | 10μF,6.3V |
| C8221 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C8222 | NBE90JM-106X | T CAPACITOR | 10μF,6.3V |
| C8223 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C8224 | NBE90JM-106X | T CAPACITOR | 10μF,6.3V |
| C8225 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C8226 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C8227 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C8228 | NBE90JM-106X | T CAPACITOR | 10μF,6.3V |
| C8229 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C8230 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C8231 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C8401 | NBE90JM-106X | T CAPACITOR | 10μF,6.3V |
| C8402 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C8403 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C8404 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| L8001 | NQR0129-002X | FERRITE BEAD | |
| L8002 | NQR0129-002X | FERRITE BEAD | |
| L8003 | NQR0129-002X | FERRITE BEAD | |
| L8005 | NQR0129-002X | FERRITE BEAD | |
| L8006 | NQR0129-002X | FERRITE BEAD | |
| L8007 | NQR0129-002X | FERRITE BEAD | |
| L8008 | NQR0129-002X | FERRITE BEAD | |
| L8010 | NQR0129-002X | FERRITE BEAD | |
| L8201 | NQR0265-001X | FERRITE BEAD | |
| L8202 | NQR0265-001X | FERRITE BEAD | |
| L8203 | NQR0265-001X | FERRITE BEAD | |
| L8204 | NQR0265-001X | FERRITE BEAD | |
| L8205 | NQR0265-001X | FERRITE BEAD | |
| L8206 | NQR0265-001X | FERRITE BEAD | |
| L8402 | NQR0265-001X | FERRITE BEAD | |
| X8002 | NAX0354-001X | RESONATOR | |
| X8401 | NAX0398-001X | C OSCILLATOR | |
| HS1 | LY42973-001A | HEAT SINK(DSC) | |
| WR1 | QUB450-03A2VL | SIN TWIST WIRE,LUG WIRE | |
| CN8401 | QGB0403L1-C0X | CONNECTOR | |
| CN8402 | QGF0517F1-20X | FPC CONNECTOR | |
| OT1 | LY30029-0D5A | SPACER(A) | |

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## PRE/MDA BOARD ASSEMBLY <03>

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|---|---|---|---|
| PW | YB10303A-01 | PRE/MDA BOARD ASSY | |
| IC1601 | BD6630KV | IC | |
| IC1701 | TA75W01FU | IC | |
| IC1702 | TA75W393FU | IC | |
| IC3501 | JCY0132 | IC | |
| IC3502 | SN74AHC1G04K | IC | |
| Q1601 | UMC3N | TRANSISTOR | |
| D1602 | DAP222 | DIODE | |
| D1603 | DAP222 | DIODE | |
| D1604 | DAP222 | DIODE | |
| R1601 | NRSA6AJ-681W | MG RESISTOR | 680Ω,1/16W |
| R1602 | NRSA6AJ-124W | MG RESISTOR | 120kΩ,1/16W |

| # ⚠ REF No. | PART No. | PART NAME, DESCRIPTION | |
|---|---|---|---|
| R1603 | NRSA6AJ-472W | MG RESISTOR | 4.7kΩ,1/16W |
| R1604 | NRSA6AJ-104W | MG RESISTOR | 100kΩ,1/16W |
| R1605 | NRV142F-R22X | CMF RESISTOR | 0.22Ω,1/4W |
| R1606 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R1609 | NRV142F-R33X | CMF RESISTOR | 0.33Ω,1/4W |
| R1610 | NRSA6AJ-471W | MG RESISTOR | 470Ω,1/16W |
| R1611 | NRSA6AJ-471W | MG RESISTOR | 470Ω,1/16W |
| R1612 | NRSA6AJ-104W | MG RESISTOR | 100kΩ,1/16W |
| R1613 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R1614 | NRSA6AJ-682W | MG RESISTOR | 6.8kΩ,1/16W |
| R1615 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R1616 | NRSA6AJ-681W | MG RESISTOR | 680Ω,1/16W |
| R1617 | NRSA6AJ-224W | MG RESISTOR | 220kΩ,1/16W |
| R1618 | NRSA6AJ-154W | MG RESISTOR | 150kΩ,1/16W |
| R1619 | NRSA6AJ-223W | MG RESISTOR | 22kΩ,1/16W |
| R1620 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R1621 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R1622 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R1624 | NRVA6AD-123W | CMF RESISTOR | 12kΩ,1/16W |
| R1625 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R1626 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R1627 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R1628 | NRVA6AD-361W | CMF RESISTOR | 360Ω,1/16W |
| R1629 | NRSA6AJ-564W | MG RESISTOR | 560kΩ,1/16W |
| R1630 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R1631 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R1632 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R1633 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R1634 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R1635 | NRSA6AJ-472W | MG RESISTOR | 4.7kΩ,1/16W |
| R1636 | NRSA6AJ-123W | MG RESISTOR | 12kΩ,1/16W |
| R1637 | NRSA6AJ-124W | MG RESISTOR | 120kΩ,1/16W |
| R1642 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R1644 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R1701 | NRSA6AJ-823W | MG RESISTOR | 82kΩ,1/16W |
| R1702 | NRSA6AJ-222W | MG RESISTOR | 2.2kΩ,1/16W |
| R1703 | NRSA6AJ-222W | MG RESISTOR | 2.2kΩ,1/16W |
| R1704 | NRSA6AJ-222W | MG RESISTOR | 2.2kΩ,1/16W |
| R1705 | NRSA6AJ-222W | MG RESISTOR | 2.2kΩ,1/16W |
| R1706 | NRSA6AJ-823W | MG RESISTOR | 82kΩ,1/16W |
| R1707 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R1708 | NRSA6AJ-124W | MG RESISTOR | 120kΩ,1/16W |
| R1709 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R1710 | NRSA6AJ-124W | MG RESISTOR | 120kΩ,1/16W |
| R1711 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R1712 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R1714 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R1715 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R3501 | NRSA6AJ-471W | MG RESISTOR | 470Ω,1/16W |
| R3502 | NRSA6AJ-104W | MG RESISTOR | 100kΩ,1/16W |
| R3503 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R3504 | NRVA6AD-241W | CMF RESISTOR | 240Ω,1/16W |
| R3505 | NRVA6AD-241W | CMF RESISTOR | 240Ω,1/16W |
| R3506 | NRVA6AD-241W | CMF RESISTOR | 240Ω,1/16W |
| R3507 | NRVA6AD-241W | CMF RESISTOR | 240Ω,1/16W |
| R3508 | NRSA6AJ-223W | MG RESISTOR | 22kΩ,1/16W |
| R3510 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R3513 | NRSA6AJ-393W | MG RESISTOR | 39kΩ,1/16W |
| R3514 | NRSA6AJ-682W | MG RESISTOR | 6.8kΩ,1/16W |
| R3515 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R3517 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R3518 | NRSA6AJ-100W | MG RESISTOR | 10Ω,1/16W |
| C1601 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |

| # ⚠ REF No. | PART No. | PART NAME, DESCRIPTION | |
|---|---|---|---|
| C1602 | NBE90JM-106X | T CAPACITOR | 10μF,6.3V |
| C1603 | NBE21AM-106X | T CAPACITOR | 10μF,10V |
| C1605 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C1606 | NCBA1HK-152W | CAPACITOR | 0.0015μF,50V |
| C1607 | NCBA1AK-473W | CAPACITOR | 0.047μF,10V |
| C1614 | NBE21AM-106X | T CAPACITOR | 10μF,10V |
| C1618 | NCBA1HK-222W | CAPACITOR | 0.0022μF,50V |
| C1619 | NCBA1HK-222W | CAPACITOR | 0.0022μF,50V |
| C1620 | NCBA1HK-222W | CAPACITOR | 0.0022μF,50V |
| C1621 | NCB21AK-105X | CAPACITOR | 1μF,10V |
| C1622 | NCBA1CK-223W | CAPACITOR | 0.022μF,16V |
| C1623 | NCBA1AK-473W | CAPACITOR | 0.047μF,10V |
| C1624 | NCB31EK-103X | CAPACITOR | 0.01μF,25V |
| C1625 | NCBA1AK-473W | CAPACITOR | 0.047μF,10V |
| C1626 | NCBA1HK-331W | CAPACITOR | 330pF,50V |
| C1627 | NCBA1CK-822W | CAPACITOR | 0.0082μF,16V |
| C1628 | NCB21CK-224X | CAPACITOR | 0.22μF,16V |
| C1632 | NBE21AM-106X | T CAPACITOR | 10μF,10V |
| C1633 | NCF21CZ-684X | CAPACITOR | 0.68μF,16V |
| C1635 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C1641 | NCB31AK-474X | CAPACITOR | 0.47μF,10V |
| C1701 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C1702 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C3501 | NCBA1CK-223W | CAPACITOR | 0.022μF,16V |
| C3502 | NCBA1AK-473W | CAPACITOR | 0.047μF,10V |
| C3503 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C3504 | NBE20JM-106X | T CAPACITOR | 10μF,6.3V |
| C3505 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C3506 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C3507 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C3508 | NBE20JM-106X | T CAPACITOR | 10μF,6.3V |
| C3509 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C3510 | NBE20JM-106X | T CAPACITOR | 10μF,6.3V |
| C3511 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C3512 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C3513 | NBE20JM-106X | T CAPACITOR | 10μF,6.3V |
| C3514 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C3516 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C3517 | NDC31HJ-221X | CAPACITOR | 220pF,50V |
| C3519 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C3520 | NBE20JM-106X | T CAPACITOR | 10μF,6.3V |
| C3522 | NCBA1AK-473W | CAPACITOR | 0.047μF,10V |
| C3523 | NCBA1AK-473W | CAPACITOR | 0.047μF,10V |
| C3524 | NCBA1AK-473W | CAPACITOR | 0.047μF,10V |
| C3525 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C3526 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C3527 | NCBA1HK-102W | CAPACITOR | 0.001μF,50V |
| C3528 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C3529 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C3530 | NBE90JM-475X | T CAPACITOR | 4.7μF,6.3V |
| C3531 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C3532 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C3533 | NBE90JM-475X | T CAPACITOR | 4.7μF,6.3V |
| L1601 | NQL315M-1R0X | COIL | 1μH |
| L3501 | NQL302N-100X | COIL | 10μH |
| L3502 | NQL302N-100X | COIL | 10μH |
| L3503 | NQL302N-100X | COIL | 10μH |
| L3504 | NQR0305-001X | FERRITE BEAD | |
| L3505 | NQL302N-100X | COIL | 10μH |
| CN401 | QGB0404L1-80X | CONNECTOR | |
| CN402 | QGF0517F1-08X | FPC CONNECTOR | |
| CN403 | QGF0517F2-06X | FPC CONNECTOR | |
| CN404 | QGF0517F1-11X | FPC CONNECTOR | |

| # ⚠ REF No. | PART No. | PART NAME, DESCRIPTION | |
|---|---|---|---|
| CN405 | QGF0517F1-18X | FPC CONNECTOR | |
| CN406 | QGF0517F2-16X | FPC CONNECTOR | |
| CN407 | QGF0517F1-06X | FPC CONNECTOR | |
| SD1 | LY32011-001A | SHIELD CASE(PR) | |

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## AUDIO BOARD ASSEMBLY <04>

| # ⚠ REF No. | PART No. | PART NAME, DESCRIPTION | |
|---|---|---|---|
| PW1 | YB10304A1-02 | AUDIO BOARD ASSY | |
| IC1101 | TA75W01FU | IC | |
| IC2201 | AK4560AVQ | IC | |
| Q1151 | RPM-22PB | PHOTO TRANSISTOR | |
| Q2201 | 2SC4617/QR/-X | TRANSISTOR | |
| Q2202 | 2SC4617/QR/-X | TRANSISTOR | |
| Q2203 | 2SD1626 | TRANSISTOR | |
| Q2601 | 2SC4617/QR/-X | TRANSISTOR | |
| Q2602 | 2SC4617/QR/-X | TRANSISTOR | |
| Q2603 | 2SA1774/QR/-X | TRANSISTOR | |
| Q2604 | 2SA1774/QR/-X | TRANSISTOR | |
| Q2605 | DTA124EE | TRANSISTOR | |
| | or UN9112J | TRANSISTOR | |
| | or RN2103 | TRANSISTOR | |
| Q2701 | 2SC4617/QR/-X | TRANSISTOR | |
| Q2702 | 2SC4617/QR/-X | TRANSISTOR | |
| Q2703 | 2SC5585 | TRANSISTOR | |
| Q2704 | 2SC5585 | TRANSISTOR | |
| Q2901 | 2SB1121/TU/-X | TRANSISTOR | |
| | or 2SB1121/ST/-X | TRANSISTOR | |
| Q2902 | 2SC4617/QR/-X | TRANSISTOR | |
| Q2903 | DTC144EE | TRANSISTOR | |
| | or PDTC144EE | TRANSISTOR | |
| | or RN1104 | TRANSISTOR | |
| | or UN9213J | TRANSISTOR | |
| Q2904 | DTC144EE | TRANSISTOR | |
| | or PDTC144EE | TRANSISTOR | |
| | or UN9213J | TRANSISTOR | |
| | or RN1104 | TRANSISTOR | |
| Q2905 | UMH6N | TRANSISTOR | |
| D2706 | DAP222 | DIODE | |
| D2901 | EMZ6.8N | ZENER DIODE | |
| D2902 | EMZ6.8N | ZENER DIODE | |
| D2903 | EMZ6.8N | ZENER DIODE | |
| R1101 | NRSA6AJ-333W | MG RESISTOR | 33kΩ,1/16W |
| R1102 | NRSA6AJ-472W | MG RESISTOR | 4.7kΩ,1/16W |
| R1104 | NRSA6AJ-105W | MG RESISTOR | 1MΩ,1/16W |
| R1106 | NRSA6AJ-105W | MG RESISTOR | 1MΩ,1/16W |
| R1107 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R1108 | NRSA6AJ-472W | MG RESISTOR | 4.7kΩ,1/16W |
| R1109 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R1110 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| R1111 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| R1112 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| R1113 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| R1151 | NRSA63J-302X | MG RESISTOR | 3kΩ,1/16W |
| R2201 | NRSA6AJ-224W | MG RESISTOR | 220kΩ,1/16W |
| R2202 | NRSA6AJ-183W | MG RESISTOR | 18kΩ,1/16W |
| R2203 | NRSA6AJ-104W | MG RESISTOR | 100kΩ,1/16W |
| R2204 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R2205 | NRSA6AJ-332W | MG RESISTOR | 3.3kΩ,1/16W |
| R2206 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R2207 | NRSA6AJ-472W | MG RESISTOR | 4.7kΩ,1/16W |
| R2208 | NRSA6AJ-820W | MG RESISTOR | 82Ω,1/16W |
| R2209 | NRSA6AJ-820W | MG RESISTOR | 82Ω,1/16W |
| R2210 | NRSA6AJ-820W | MG RESISTOR | 82Ω,1/16W |
| R2211 | NRSA6AJ-100W | MG RESISTOR | 10Ω,1/16W |
| R2212 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R2213 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R2214 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R2215 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R2216 | NRSA6AJ-2R7W | MG RESISTOR | 2.7Ω,1/16W |
| R2217 | NRSA6AJ-2R7W | MG RESISTOR | 2.7Ω,1/16W |
| R2218 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R2219 | NRSA6AJ-123W | MG RESISTOR | 12kΩ,1/16W |
| R2220 | NRSA6AJ-223W | MG RESISTOR | 22kΩ,1/16W |
| R2601 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R2602 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R2603 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R2604 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R2605 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R2606 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R2607 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R2608 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R2609 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R2610 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R2611 | NRSA6AJ-182W | MG RESISTOR | 1.8kΩ,1/16W |
| R2612 | NRSA6AJ-182W | MG RESISTOR | 1.8kΩ,1/16W |
| R2613 | NRSA6AJ-331W | MG RESISTOR | 330Ω,1/16W |
| R2614 | NRSA6AJ-331W | MG RESISTOR | 330Ω,1/16W |
| R2615 | NRSA6AJ-682W | MG RESISTOR | 6.8kΩ,1/16W |
| R2616 | NRSA6AJ-682W | MG RESISTOR | 6.8kΩ,1/16W |
| R2617 | NRSA6AJ-682W | MG RESISTOR | 6.8kΩ,1/16W |
| R2618 | NRSA6AJ-682W | MG RESISTOR | 6.8kΩ,1/16W |
| R2619 | NRSA6AJ-222W | MG RESISTOR | 2.2kΩ,1/16W |
| R2620 | NRSA6AJ-222W | MG RESISTOR | 2.2kΩ,1/16W |
| R2623 | NRSA6AJ-223W | MG RESISTOR | 22kΩ,1/16W |
| R2624 | NRSA6AJ-223W | MG RESISTOR | 22kΩ,1/16W |
| R2625 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R2626 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R2627 | NRSA6AJ-332W | MG RESISTOR | 3.3kΩ,1/16W |
| R2628 | NRSA6AJ-332W | MG RESISTOR | 3.3kΩ,1/16W |
| R2629 | NRSA6AJ-392W | MG RESISTOR | 3.9kΩ,1/16W |
| R2630 | NRSA6AJ-392W | MG RESISTOR | 3.9kΩ,1/16W |
| R2631 | NRSA6AJ-472W | MG RESISTOR | 4.7kΩ,1/16W |
| R2632 | NRSA6AJ-472W | MG RESISTOR | 4.7kΩ,1/16W |
| R2633 | NRSA6AJ-222W | MG RESISTOR | 2.2kΩ,1/16W |
| R2634 | NRSA6AJ-222W | MG RESISTOR | 2.2kΩ,1/16W |
| R2635 | NRSA6AJ-153W | MG RESISTOR | 15kΩ,1/16W |
| R2636 | NRSA6AJ-153W | MG RESISTOR | 15kΩ,1/16W |
| R2637 | NRSA6AJ-104W | MG RESISTOR | 100kΩ,1/16W |
| R2638 | NRSA6AJ-104W | MG RESISTOR | 100kΩ,1/16W |
| R2639 | NRSA6AJ-473W | MG RESISTOR | 47kΩ,1/16W |
| R2640 | NRSA6AJ-473W | MG RESISTOR | 47kΩ,1/16W |
| R2641 | NRSA6AJ-104W | MG RESISTOR | 100kΩ,1/16W |
| R2643 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R2645 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R2646 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R2649 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R2650 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| R2651 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| R2652 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| R2701 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R2702 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R2705 | NRSA6AJ-223W | MG RESISTOR | 22kΩ,1/16W |

| # ⚠ REF No. | PART No. | PART NAME, DESCRIPTION | |
|---|---|---|---|
| R2706 | NRSA6AJ-223W | MG RESISTOR | 22kΩ,1/16W |
| R2707 | NRSA6AJ-273W | MG RESISTOR | 27kΩ,1/16W |
| R2708 | NRSA6AJ-273W | MG RESISTOR | 27kΩ,1/16W |
| R2709 | NRSA6AJ-151W | MG RESISTOR | 150Ω,1/16W |
| R2710 | NRSA6AJ-151W | MG RESISTOR | 150Ω,1/16W |
| R2713 | NRSA6AJ-682W | MG RESISTOR | 6.8kΩ,1/16W |
| R2714 | NRSA6AJ-682W | MG RESISTOR | 6.8kΩ,1/16W |
| R2901 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R2903 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R2905 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R2906 | NRSA6AJ-103W | MG RESISTOR | 10kΩ,1/16W |
| R2907 | NRSA6AJ-473W | MG RESISTOR | 47kΩ,1/16W |
| R2908 | NRSA6AJ-473W | MG RESISTOR | 47kΩ,1/16W |
| R2909 | NRSA6AJ-472W | MG RESISTOR | 4.7kΩ,1/16W |
| R2910 | NRSA6AJ-391W | MG RESISTOR | 390Ω,1/16W |
| R2911 | NRSA6AJ-104W | MG RESISTOR | 100kΩ,1/16W |
| R2912 | NRSA6AJ-153W | MG RESISTOR | 15kΩ,1/16W |
| R2913 | NRSA6AJ-183W | MG RESISTOR | 18kΩ,1/16W |
| R2917 | NRSA6AJ-153W | MG RESISTOR | 15kΩ,1/16W |
| R2918 | NRSA6AJ-153W | MG RESISTOR | 15kΩ,1/16W |
| R2919 | NRSA6AJ-105W | MG RESISTOR | 1MΩ,1/16W |
| R2920 | NRSA6AJ-105W | MG RESISTOR | 1MΩ,1/16W |
| C1101 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C1102 | NCBA1CK-223W | CAPACITOR | 0.022µF,16V |
| C1103 | NCBA1CK-223W | CAPACITOR | 0.022µF,16V |
| C1111 | NCB30JK-105X | CAPACITOR | 1µF,6.3V |
| C1112 | NBE20JM-106X | T CAPACITOR | 10µF,6.3V |
| C1113 | NBE20JM-106X | T CAPACITOR | 10µF,6.3V |
| C1114 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C1151 | NBE20JM-106X | T CAPACITOR | 10µF,6.3V |
| C2201 | NCB21AK-105X | CAPACITOR | 1µF,10V |
| C2202 | NCB21AK-105X | CAPACITOR | 1µF,10V |
| C2203 | NBE80JM-106X | T CAPACITOR | 10µF,6.3V |
| C2204 | NCB30JK-105X | CAPACITOR | 1µF,6.3V |
| C2205 | NCB30JK-105X | CAPACITOR | 1µF,6.3V |
| C2206 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C2207 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C2208 | NCBA1AK-333W | CAPACITOR | 0.033µF,10V |
| C2209 | NCBA1CK-153W | CAPACITOR | 0.015µF,16V |
| C2210 | NBE20JM-106X | T CAPACITOR | 10µF,6.3V |
| C2211 | NCB21AK-105X | CAPACITOR | 1µF,10V |
| C2212 | NBE20JM-106X | T CAPACITOR | 10µF,6.3V |
| C2213 | NBE20JM-106X | T CAPACITOR | 10µF,6.3V |
| C2220 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C2221 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C2230 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C2231 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C2232 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C2233 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C2234 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C2235 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C2601 | NCBA1HK-102W | CAPACITOR | 0.001µF,50V |
| C2602 | NCBA1HK-102W | CAPACITOR | 0.001µF,50V |
| C2607 | NCBA1HK-102W | CAPACITOR | 0.001µF,50V |
| C2608 | NCBA1HK-102W | CAPACITOR | 0.001µF,50V |
| C2611 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C2612 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C2615 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C2616 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C2617 | NCBA1AK-473W | CAPACITOR | 0.047µF,10V |
| C2618 | NCBA1AK-473W | CAPACITOR | 0.047µF,10V |
| C2619 | NCBA1HK-102W | CAPACITOR | 0.001µF,50V |
| C2620 | NCBA1HK-102W | CAPACITOR | 0.001µF,50V |
| C2621 | NCBA1AK-473W | CAPACITOR | 0.047µF,10V |
| C2622 | NCBA1AK-473W | CAPACITOR | 0.047µF,10V |
| C2625 | NBP21DM-475X | T CAPACITOR | 4.7µF,20V |
| C2626 | NBP21DM-475X | T CAPACITOR | 4.7µF,20V |
| C2627 | NCBA1AK-473W | CAPACITOR | 0.047µF,10V |
| C2628 | NCBA1AK-473W | CAPACITOR | 0.047µF,10V |
| C2629 | NCBA1CK-223W | CAPACITOR | 0.022µF,16V |
| C2630 | NCBA1CK-223W | CAPACITOR | 0.022µF,16V |
| C2631 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C2632 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C2633 | NCBA1HK-182W | CAPACITOR | 0.0018µF,50V |
| C2634 | NCBA1HK-182W | CAPACITOR | 0.0018µF,50V |
| C2635 | NCB30JK-105X | CAPACITOR | 1µF,6.3V |
| C2636 | NCB30JK-105X | CAPACITOR | 1µF,6.3V |
| C2637 | NCBA1CK-223W | CAPACITOR | 0.022µF,16V |
| C2638 | NCBA1CK-223W | CAPACITOR | 0.022µF,16V |
| C2639 | NCBA1EK-472W | CAPACITOR | 0.0047µF,25V |
| C2640 | NCBA1EK-472W | CAPACITOR | 0.0047µF,25V |
| C2641 | NCBA1EK-472W | CAPACITOR | 0.0047µF,25V |
| C2642 | NCBA1EK-472W | CAPACITOR | 0.0047µF,25V |
| C2643 | NCB30JK-105X | CAPACITOR | 1µF,6.3V |
| C2644 | NCB30JK-105X | CAPACITOR | 1µF,6.3V |
| C2646 | NCB21AK-105X | CAPACITOR | 1µF,10V |
| C2647 | NBE20JM-106X | T CAPACITOR | 10µF,6.3V |
| C2701 | NCB21AK-105X | CAPACITOR | 1µF,10V |
| C2702 | NCB21AK-105X | CAPACITOR | 1µF,10V |
| C2703 | NRSA02J-0R0X | MG RESISTOR | 0Ω,1/10W |
| C2704 | NRSA02J-0R0X | MG RESISTOR | 0Ω,1/10W |
| C2707 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C2708 | NCBA1AK-104W | CAPACITOR | 0.1µF,10V |
| C2709 | NBE20GM-226X | T CAPACITOR | 22µF,4.0V |
| C2710 | NBE20GM-226X | T CAPACITOR | 22µF,4.0V |
| C2901 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C2904 | NCBA1CK-103W | CAPACITOR | 0.01µF,16V |
| C2907 | NCB30JK-105X | CAPACITOR | 1µF,6.3V |
| L1101 | NQL402M-100X | COIL | 10µH |
| L1151 | NQR0265-001X | FERRITE BEAD | |
| L2201 | NQL315K-100X | COIL | 10µH |
| L2202 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| L2203 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| L2204 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| L2205 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| L2206 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| L2601 | NQR0251-004X | FERRITE BEAD | |
| L2602 | NQR0251-004X | FERRITE BEAD | |
| L2603 | NQR0251-004X | FERRITE BEAD | |
| L2604 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| L2605 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| L2606 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| L2607 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| L2901 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| L2902 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| L2903 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| L2904 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| L2905 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| L2906 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| L2907 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| L2908 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| L2909 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| L2910 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| L2911 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| J201 | QNS0168-001 | 3.5 JACK,EXT MIC | |
| CN201 | QGB0402K1-80X | CONNECTOR | |

| # ⚠ REF No. | PART No. | PART NAME, DESCRIPTION | |
|---|---|---|---|
| CN202 | QGF0517F1-16X | FPC CONNECTOR | |
| CN203 | QGF0505F2-08X | FPC CONNECTOR | |
| CN204 | QGA1002F1-03X | CONNECTOR | |
| CN205 | QGF0517F1-10X | FPC CONNECTOR | |

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## REG BOARD ASSEMBLY <05>

| # ⚠ REF No. | PART No. | PART NAME, DESCRIPTION | |
|---|---|---|---|
| PW2 | YB10304A2-02 | REG BOARD ASSY | |
| IC6101 | FA3676F | IC | |
| Q6101 | NDS352AP | MOS FET | |
| Q6103 | NDS352AP | MOS FET | |
| Q6105 | NDS352AP | MOS FET | |
| Q6106 | NDS352AP | MOS FET | |
| Q6107 | NDS352AP | MOS FET | |
| Q6108 | NDS352AP | MOS FET | |
| Q6109 | HN1C01FU/G/-X | PAIR TRANSISTOR | |
| | or PUMX1 | PAIR TRANSISTOR | |
| Q6110 | 2SA1577/QR/-X | TRANSISTOR | |
| Q6111 | 2SC4617/QR/-X | TRANSISTOR | |
| | or 2SC4738/YG/-X | TRANSISTOR | |
| Q6112 | DTC144EE | TRANSISTOR | |
| | or PDTC144EE | TRANSISTOR | |
| | or UN9213J | TRANSISTOR | |
| | or RN1104 | TRANSISTOR | |
| Q6113 | HN1A01FU/G/-X | PAIR TRANSISTOR | |
| | or PUMT1 | PAIR TRANSISTOR | |
| Q6114 | 2SC4617/QR/-X | TRANSISTOR | |
| | or 2SC4738/YG/-X | TRANSISTOR | |
| D6101 | EP10LA03 | SB DIODE | |
| D6102 | EP10LA03 | SB DIODE | |
| D6103 | EP10LA03 | SB DIODE | |
| D6104 | EP10LA03 | SB DIODE | |
| D6105 | EP10LA03 | SB DIODE | |
| D6106 | 1SS383 | SB DIODE | |
| D6107 | MA8091/L/-X | ZENER DIODE | |
| D6108 | 1SS383 | SB DIODE | |
| R6101 | NRSA6AJ-224W | MG RESISTOR | 220kΩ,1/16W |
| R6102 | NRSA6AJ-184W | MG RESISTOR | 180kΩ,1/16W |
| R6104 | NRVA6AD-472W | CMF RESISTOR | 4.7kΩ,1/16W |
| R6105 | NRVA6AD-113W | CMF RESISTOR | 11kΩ,1/16W |
| R6106 | NRSA6AJ-223W | MG RESISTOR | 22kΩ,1/16W |
| R6107 | NRSA6AJ-223W | MG RESISTOR | 22kΩ,1/16W |
| R6108 | NRSA6AJ-104W | MG RESISTOR | 100kΩ,1/16W |
| R6109 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| R6110 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| R6111 | NRSA6AJ-4R7W | MG RESISTOR | 4.7Ω,1/16W |
| R6113 | NRVA6AD-223W | CMF RESISTOR | 22kΩ,1/16W |
| R6114 | NRVA6AD-113W | CMF RESISTOR | 11kΩ,1/16W |
| R6116 | NRSA6AJ-4R7W | MG RESISTOR | 4.7Ω,1/16W |
| R6118 | NRVA6AD-333W | CMF RESISTOR | 33kΩ,1/16W |
| R6119 | NRVA6AD-473W | CMF RESISTOR | 47kΩ,1/16W |
| R6120 | NRSA6AJ-473W | MG RESISTOR | 47kΩ,1/16W |
| R6121 | NRSA6AJ-4R7W | MG RESISTOR | 4.7Ω,1/16W |
| R6122 | NRVA6AD-243W | CMF RESISTOR | 24kΩ,1/16W |
| R6123 | NRVA6AD-302W | CMF RESISTOR | 3kΩ,1/16W |
| R6124 | NRVA6AD-104W | CMF RESISTOR | 100kΩ,1/16W |
| R6125 | NRVA6AD-123W | CMF RESISTOR | 12kΩ,1/16W |
| R6126 | NRVA6AD-103W | CMF RESISTOR | 10kΩ,1/16W |
| R6127 | NRSA6AJ-4R7W | MG RESISTOR | 4.7Ω,1/16W |
| R6128 | NRVA6AD-473W | CMF RESISTOR | 47kΩ,1/16W |
| R6129 | NRVA6AD-562W | CMF RESISTOR | 5.6kΩ,1/16W |
| R6130 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R6131 | NRVA6AD-223W | CMF RESISTOR | 22kΩ,1/16W |
| R6132 | NRVA6AD-473W | CMF RESISTOR | 47kΩ,1/16W |
| R6133 | NRSA6AJ-4R7W | MG RESISTOR | 4.7Ω,1/16W |
| R6134 | NRVA6AD-273W | CMF RESISTOR | 27kΩ,1/16W |
| R6135 | NRVA6AD-472W | CMF RESISTOR | 4.7kΩ,1/16W |
| R6136 | NRVA6AD-473W | CMF RESISTOR | 47kΩ,1/16W |
| R6137 | NRSA6AJ-473W | MG RESISTOR | 47kΩ,1/16W |
| R6138 | NRSA6AJ-4R7W | MG RESISTOR | 4.7Ω,1/16W |
| R6139 | NRVA6AD-272W | CMF RESISTOR | 2.7kΩ,1/16W |
| R6140 | NRVA6AD-623W | CMF RESISTOR | 62kΩ,1/16W |
| R6141 | NRVA6AD-392W | CMF RESISTOR | 3.9kΩ,1/16W |
| R6142 | NRSA6AJ-105W | MG RESISTOR | 1MΩ,1/16W |
| R6143 | NRSA6AJ-473W | MG RESISTOR | 47kΩ,1/16W |
| R6144 | NRSA6AJ-273W | MG RESISTOR | 27kΩ,1/16W |
| R6145 | NRSA6AJ-822W | MG RESISTOR | 8.2kΩ,1/16W |
| R6146 | NRVA6AD-513W | CMF RESISTOR | 51kΩ,1/16W |
| R6147 | NRSA6AD-823W | MG RESISTOR | 82kΩ,1/16W |
| R6148 | NRVA6AD-473W | CMF RESISTOR | 47kΩ,1/16W |
| R6149 | NRSA6AJ-222W | MG RESISTOR | 2.2kΩ,1/16W |
| R6151 | NRSA6AJ-104W | MG RESISTOR | 100kΩ,1/16W |
| R6152 | NRSA6AJ-823W | MG RESISTOR | 82kΩ,1/16W |
| R6153 | NRVA6AD-623W | CMF RESISTOR | 62kΩ,1/16W |
| R6155 | NRVA6AD-683W | CMF RESISTOR | 68kΩ,1/16W |
| R6156 | NRSA6AJ-333W | MG RESISTOR | 33kΩ,1/16W |
| R6157 | NRSA6AJ-333W | MG RESISTOR | 33kΩ,1/16W |
| R6158 | NRSA6AJ-102W | MG RESISTOR | 1kΩ,1/16W |
| R6159 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω,1/16W |
| R6160 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| C6101 | NCB21CK-105X | CAPACITOR | 1μF,16V |
| C6102 | NCB21CK-105X | CAPACITOR | 1μF,16V |
| C6103 | NBPE1CM-106X | T CAPACITOR | 10μF,16V |
| C6104 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C6105 | NCF31AZ-105X | CAPACITOR | 1μF,10V |
| C6106 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C6107 | NCB21CK-105X | CAPACITOR | 1μF,16V |
| C6108 | NCF31AZ-105X | CAPACITOR | 1μF,10V |
| C6109 | NCBA1EK-472W | CAPACITOR | 0.0047μF,25V |
| C6110 | NCBA1CK-223W | CAPACITOR | 0.022μF,16V |
| C6111 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C6112 | NCBA1HK-272W | CAPACITOR | 0.0027μF,50V |
| C6113 | NCBA1AK-104W | CAPACITOR | 0.1μF,10V |
| C6114 | NCBA1HK-561W | CAPACITOR | 560pF,50V |
| C6115 | NCBA1HK-561W | CAPACITOR | 560pF,50V |
| C6117 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| C6118 | NDCA1HJ-101W | CAPACITOR | 100pF,50V |
| C6119 | NBE20JM-106X | T CAPACITOR | 10μF,6.3V |
| C6120 | NCF31AZ-105X | CAPACITOR | 1μF,10V |
| C6121 | NCB21CK-105X | CAPACITOR | 1μF,16V |
| C6122 | NCB10JK-106X | CAPACITOR | 10μF,6.3V |
| C6123 | NCBA1HK-102W | CAPACITOR | 0.001μF,50V |
| C6127 | NCB21CK-105X | CAPACITOR | 1μF,16V |
| C6128 | NCB10JK-106X | CAPACITOR | 10μF,6.3V |
| C6129 | NCBA1EK-472W | CAPACITOR | 0.0047μF,25V |
| C6130 | NCB21CK-105X | CAPACITOR | 1μF,16V |
| C6131 | NCB21CK-105X | CAPACITOR | 1μF,16V |
| C6133 | NCB31CK-683X | CAPACITOR | 0.068μF,16V |
| C6134 | NCB21CK-105X | CAPACITOR | 1μF,16V |
| C6135 | NCB21CK-105X | CAPACITOR | 1μF,16V |

| # ⚠ | REF No. | PART No. | PART NAME, DESCRIPTION | |
|---|---|---|---|---|
| | C6137 | NCB31AK-224X | CAPACITOR | 0.22μF,10V |
| | C6138 | NCB21CK-105X | CAPACITOR | 1μF,16V |
| | C6139 | NCB10JK-106X | CAPACITOR | 10μF,6.3V |
| | C6140 | NCBA1HK-102W | CAPACITOR | 0.001μF,50V |
| | C6141 | NCB21CK-105X | CAPACITOR | 1μF,16V |
| | C6142 | NCB21CK-105X | CAPACITOR | 1μF,16V |
| | C6143 | NCB21CK-105X | CAPACITOR | 1μF,16V |
| | C6144 | NCB11EK-105X | CAPACITOR | 1μF,25V |
| | C6145 | NCBA1HK-102W | CAPACITOR | 0.001μF,50V |
| | C6146 | NCBA1CK-103W | CAPACITOR | 0.01μF,16V |
| | C6147 | NCB21CK-105X | CAPACITOR | 1μF,16V |
| | C6148 | NCB21CK-105X | CAPACITOR | 1μF,16V |
| | C6149 | NCB21CK-105X | CAPACITOR | 1μF,16V |
| | C6150 | NCB11EK-105X | CAPACITOR | 1μF,25V |
| | C6151 | NCB21CK-105X | CAPACITOR | 1μF,16V |
| | C6152 | NCB21CK-105X | CAPACITOR | 1μF,16V |
| | L6101 | NQLZ011-4R7X | COIL | 4.7μH |
| | L6102 | NQLZ011-4R7X | COIL | 4.7μH |
| | L6103 | NQLZ007-390X | COIL | 39μH |
| | L6107 | NQLZ011-390X | COIL | 39μH |
| | L6108 | NQLZ011-470X | COIL | 47μH |
| | L6109 | NQLZ011-470X | COIL | 47μH |
| | L6110 | NQLZ011-390X | COIL | 39μH |
| | L6111 | NQL144K-220X | COIL | 22μH |
| | L6112 | NQLZ011-221X | COIL | 220μH |
| | CN601 | QGB0507M1-80X | CONNECTOR | |
| | CN602 | QGF0505F2-12X | FPC CONNECTOR | |
| ⚠ | F6101 | NMFZ007-2R0X-K | FUSE | T2.0A |
| ⚠ | F6102 | NMFZ007-2R0X-K | FUSE | T2.0A |
| ⚠ | F6103 | NMFZ007-R50X-K | FUSE | T0.5A |
| | OT1 | LY42978-001A | SPACER(REG PWB) | |

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## MONITOR BOARD ASSEMBLY <06>

| # ⚠ | REF No. | PART No. | PART NAME, DESCRIPTION | |
|---|---|---|---|---|
| | PW | YB10306B-01 | MONITOR BOARD ASSY | |
| | IC7301 | CXA3268AR-B | IC | |
| | IC7302 | AT25040N-10SC-X | IC | |
| | | or 25LC040-I/SN-X | IC | |
| | IC7401 | CXA3503R-B | IC | |
| | IC7501 | TL1451CPW | IC | |
| | IC7502 | TC7SH04FU | IC(DIGITAL) | |
| | | or SN74AHC1G04K | IC | |
| | Q7301 | 2SA1774/QR/-X | TRANSISTOR | |
| | Q7302 | 2SA1577/QR/-X | TRANSISTOR | |
| | Q7303 | DTC144EE | TRANSISTOR | |
| | | or RN1104 | TRANSISTOR | |
| | | or UN9213J | TRANSISTOR | |
| | Q7304 | 2SC4617/QR/-X | TRANSISTOR | |
| | | or 2SC4738/YG/-X | TRANSISTOR | |
| | Q7305 | 2SA1774/QR/-X | TRANSISTOR | |
| | | or 2SA1832/YG/-X | TRANSISTOR | |
| | Q7306 | 2SC4617/QR/-X | TRANSISTOR | |
| | | or 2SC4738/YG/-X | TRANSISTOR | |
| | Q7307 | 2SA1774/QR/-X | TRANSISTOR | |
| | | or 2SA1832/YG/-X | TRANSISTOR | |
| | Q7401 | 2SA1774/QR/-X | TRANSISTOR | |
| | | or 2SA1832/YG/-X | TRANSISTOR | |
| | Q7501 | UMD3N | TRANSISTOR | |
| | Q7502 | SSM3K01F | MOS FET | |
| | Q7503 | 2SC4617/QR/-X | TRANSISTOR | |
| | Q7504 | XP6401 | TRANSISTOR | |
| | D7301 | MA365 | VARI CAP DIODE | |
| | D7302 | UDZ2.7B | ZENER DIODE | |
| | D7303 | UDZ4.3B | ZENER DIODE | |
| | D7401 | MA365 | VARI CAP DIODE | |
| | D7501 | MA142WK | DIODE | |
| | R7301 | NRSA63J-271X | MG RESISTOR | 270Ω,1/16W |
| | R7302 | NRSA63J-102X | MG RESISTOR | 1kΩ,1/16W |
| | R7303 | NRVA63D-333X | CMF RESISTOR | 33kΩ,1/16W |
| | R7304 | NRVA63D-153X | CMF RESISTOR | 15kΩ,1/16W |
| | R7305 | NRSA63J-100X | MG RESISTOR | 10Ω,1/16W |
| | R7306 | NRSA63J-100X | MG RESISTOR | 10Ω,1/16W |
| | R7307 | NRSA63J-100X | MG RESISTOR | 10Ω,1/16W |
| | R7314 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| | R7315 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| | R7316 | NRSA63J-472X | MG RESISTOR | 4.7kΩ,1/16W |
| | R7320 | NRSA63J-473X | MG RESISTOR | 47kΩ,1/16W |
| | R7321 | NVP0016-473X | TRIM RESISTOR,PLL(MONI) | |
| | R7322 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| | R7323 | NRSA63J-333X | MG RESISTOR | 33kΩ,1/16W |
| | R7324 | NRSA63J-103X | MG RESISTOR | 10kΩ,1/16W |
| | R7325 | NRSA63J-102X | MG RESISTOR | 1kΩ,1/16W |
| | R7326 | NRSA63J-103X | MG RESISTOR | 10kΩ,1/16W |
| | R7330 | NRSA63J-103X | MG RESISTOR | 10kΩ,1/16W |
| | R7331 | NRSA63J-472X | MG RESISTOR | 4.7kΩ,1/16W |
| | R7332 | NRSA63J-100X | MG RESISTOR | 10Ω,1/16W |
| | R7333 | NRSA63J-223X | MG RESISTOR | 22kΩ,1/16W |
| | R7334 | NRSA63J-223X | MG RESISTOR | 22kΩ,1/16W |
| | R7335 | NRSA63J-103X | MG RESISTOR | 10kΩ,1/16W |
| | R7336 | NRSA63J-473X | MG RESISTOR | 47kΩ,1/16W |
| | R7401 | NRSA63J-271X | MG RESISTOR | 270Ω,1/16W |
| | R7402 | NRSA63J-102X | MG RESISTOR | 1kΩ,1/16W |
| | R7403 | NRVA63D-333X | CMF RESISTOR | 33kΩ,1/16W |
| | R7404 | NRVA63D-153X | CMF RESISTOR | 15kΩ,1/16W |
| | R7405 | NRSA63J-100X | MG RESISTOR | 10Ω,1/16W |
| | R7406 | NRSA63J-100X | MG RESISTOR | 10Ω,1/16W |
| | R7407 | NRSA63J-100X | MG RESISTOR | 10Ω,1/16W |
| | R7414 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| | R7415 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| | R7416 | NRSA63J-472X | MG RESISTOR | 4.7kΩ,1/16W |
| | R7417 | NRVA63D-562X | CMF RESISTOR | 5.6kΩ,1/16W |
| | R7418 | NRVA63D-562X | CMF RESISTOR | 5.6kΩ,1/16W |
| | R7420 | NRSA63J-393X | MG RESISTOR | 39kΩ,1/16W |
| | R7421 | NVP0016-473X | TRIM RESISTOR,PLL(VF) | |
| | R7422 | NRSA63J-752X | MG RESISTOR | 7.5kΩ,1/16W |
| | R7423 | NRSA63J-333X | MG RESISTOR | 33kΩ,1/16W |
| | R7424 | NRSA63J-103X | MG RESISTOR | 10kΩ,1/16W |
| | R7425 | NRSA63J-102X | MG RESISTOR | 1kΩ,1/16W |
| | R7426 | NRSA63J-103X | MG RESISTOR | 10kΩ,1/16W |
| | R7501 | NRVA63D-103X | CMF RESISTOR | 10kΩ,1/16W |
| | R7502 | NRVA63D-123X | CMF RESISTOR | 12kΩ,1/16W |
| | R7503 | NRVA63D-334X | CMF RESISTOR | 330kΩ,1/16W |
| | R7504 | NRSA63J-394X | MG RESISTOR | 390kΩ,1/16W |
| | R7505 | NRSA63J-562X | MG RESISTOR | 5.6kΩ,1/16W |
| | R7506 | NRSA63J-183X | MG RESISTOR | 18kΩ,1/16W |
| | R7507 | NRSA63J-472X | MG RESISTOR | 4.7kΩ,1/16W |
| | R7508 | NRS181J-335X | MG RESISTOR | 3.3MΩ,1/8W |
| | R7509 | NRS181J-335X | MG RESISTOR | 3.3MΩ,1/8W |
| | R7510 | NRSA63J-223X | MG RESISTOR | 22kΩ,1/16W |
| | R7511 | NRSA63J-751X | MG RESISTOR | 750Ω,1/16W |
| | R7512 | NRSA63J-822X | MG RESISTOR | 8.2kΩ,1/16W |
| | R7513 | NRSA63J-273X | MG RESISTOR | 27kΩ,1/16W |

| # ⚠ | REF No. | PART No. | PART NAME, DESCRIPTION | |
|---|---|---|---|---|
| | R7514 | NRSA63J-124X | MG RESISTOR | 120kΩ,1/16W |
| | R7515 | NRSA63J-151X | MG RESISTOR | 150Ω,1/16W |
| | R7516 | NRSA63J-151X | MG RESISTOR | 150Ω,1/16W |
| | R7517 | NRSA63J-122X | MG RESISTOR | 1.2kΩ,1/16W |
| | R7518 | NRSA63J-332X | MG RESISTOR | 3.3kΩ,1/16W |
| | R7519 | NRSA63J-163X | MG RESISTOR | 16kΩ,1/16W |
| | R7520 | NRSA63J-393X | MG RESISTOR | 39kΩ,1/16W |
| | R7521 | NRVA63D-153X | CMF RESISTOR | 15kΩ,1/16W |
| | R7523 | NRVA63D-184X | CMF RESISTOR | 180kΩ,1/16W |
| | R7524 | NRVA63D-114X | CMF RESISTOR | 110kΩ,1/16W |
| | R7525 | NRSA63J-333X | MG RESISTOR | 33kΩ,1/16W |
| | R7526 | NRSA63J-221X | MG RESISTOR | 220Ω,1/16W |
| | C7301 | NCB21CK-105X | CAPACITOR | 1µF,16V |
| | C7302 | NCB31CK-104X | CAPACITOR | 0.1µF,16V |
| | C7303 | NBE20JM-226X | T CAPACITOR | 22µF,6.3V |
| | C7304 | NCB31EK-103X | CAPACITOR | 0.01µF,25V |
| | C7305 | NCB21CK-105X | CAPACITOR | 1µF,16V |
| | C7306 | NCB21CK-105X | CAPACITOR | 1µF,16V |
| | C7307 | NCB21CK-105X | CAPACITOR | 1µF,16V |
| | C7308 | NBP41CM-106X | T CAPACITOR | 10µF,16V |
| | C7309 | NCB21CK-105X | CAPACITOR | 1µF,16V |
| | C7310 | NCB31CK-104X | CAPACITOR | 0.1µF,16V |
| | C7311 | NBP41CM-106X | T CAPACITOR | 10µF,16V |
| | C7312 | NCB31CK-104X | CAPACITOR | 0.1µF,16V |
| | C7313 | NCB31CK-104X | CAPACITOR | 0.1µF,16V |
| | C7314 | NBE20JM-226X | T CAPACITOR | 22µF,6.3V |
| | C7315 | NCB31CK-104X | CAPACITOR | 0.1µF,16V |
| | C7316 | NCB21CK-105X | CAPACITOR | 1µF,16V |
| | C7317 | NCB31CK-104X | CAPACITOR | 0.1µF,16V |
| | C7318 | NCB31CK-104X | CAPACITOR | 0.1µF,16V |
| | C7319 | NCB31CK-104X | CAPACITOR | 0.1µF,16V |
| | C7320 | NDC31HJ-300X | CAPACITOR | 30pF,50V |
| | C7321 | NCB31HK-102X | CAPACITOR | 0.001µF,50V |
| | C7322 | NCB31EK-103X | CAPACITOR | 0.01µF,25V |
| | C7323 | NCB31HK-682X | CAPACITOR | 0.0068µF,50V |
| | C7324 | NCB11AK-335X | CAPACITOR | 3.3µF,10V |
| | C7330 | NCB21CK-105X | CAPACITOR | 1µF,16V |
| | C7331 | NCB10JK-106X | CAPACITOR | 10µF,6.3V |
| | C7332 | NCB21CK-105X | CAPACITOR | 1µF,16V |
| | C7333 | NCB21CK-105X | CAPACITOR | 1µF,16V |
| | C7335 | NCB31CK-104X | CAPACITOR | 0.1µF,16V |
| | C7336 | NCB21CK-105X | CAPACITOR | 1µF,16V |
| | C7337 | NCB21CK-105X | CAPACITOR | 1µF,16V |
| | C7338 | NCB31EK-103X | CAPACITOR | 0.01µF,25V |
| | C7401 | NCB21CK-105X | CAPACITOR | 1µF,16V |
| | C7402 | NCB31CK-104X | CAPACITOR | 0.1µF,16V |
| | C7403 | NBE20JM-226X | T CAPACITOR | 22µF,6.3V |
| | C7404 | NCB31EK-103X | CAPACITOR | 0.01µF,25V |
| | C7405 | NCB21CK-105X | CAPACITOR | 1µF,16V |
| | C7406 | NCB21CK-105X | CAPACITOR | 1µF,16V |
| | C7407 | NCB21CK-105X | CAPACITOR | 1µF,16V |
| | C7408 | NBP41CM-106X | T CAPACITOR | 10µF,16V |
| | C7410 | NCB31CK-104X | CAPACITOR | 0.1µF,16V |
| | C7411 | NBP41CM-106X | T CAPACITOR | 10µF,16V |
| | C7412 | NCB31CK-104X | CAPACITOR | 0.1µF,16V |
| | C7413 | NCB31CK-104X | CAPACITOR | 0.1µF,16V |
| | C7414 | NBE20JM-226X | T CAPACITOR | 22µF,6.3V |
| | C7415 | NCB31CK-104X | CAPACITOR | 0.1µF,16V |
| | C7416 | NCB21CK-105X | CAPACITOR | 1µF,16V |
| | C7417 | NCB31CK-104X | CAPACITOR | 0.1µF,16V |
| | C7418 | NCB31CK-104X | CAPACITOR | 0.1µF,16V |
| | C7419 | NCB31CK-104X | CAPACITOR | 0.1µF,16V |
| | C7420 | NDC31HJ-300X | CAPACITOR | 30pF,50V |

| # ⚠ | REF No. | PART No. | PART NAME, DESCRIPTION | |
|---|---|---|---|---|
| | C7421 | NDC31HJ-221X | CAPACITOR | 220pF,50V |
| | C7422 | NCB31EK-103X | CAPACITOR | 0.01µF,25V |
| | C7423 | NCB31HK-682X | CAPACITOR | 0.0068µF,50V |
| | C7424 | NCB11AK-335X | CAPACITOR | 3.3µF,10V |
| | C7425 | NCB31EK-103X | CAPACITOR | 0.01µF,25V |
| | C7501 | NCB31CK-104X | CAPACITOR | 0.1µF,16V |
| | C7502 | NCB10JK-106X | CAPACITOR | 10µF,6.3V |
| | C7503 | NCB11AK-335X | CAPACITOR | 3.3µF,10V |
| | C7504 | NBP41CM-106X | T CAPACITOR | 10µF,16V |
| | C7505 | NCB31EK-103X | CAPACITOR | 0.01µF,25V |
| | C7506 | NBE90JM-685X | T CAPACITOR | 6.8µF,6.3V |
| | C7507 | NDC31HJ-331X | CAPACITOR | 330pF,50V |
| | C7508 | NCB31CK-104X | CAPACITOR | 0.1µF,16V |
| | C7509 | NBP21CM-685X | T CAPACITOR | 6.8µF,16V |
| | L7301 | NQL085J-3R3X | COIL | 3.3µH |
| | L7302 | NQL315K-100X | COIL | 10µH |
| | L7303 | NQL315K-100X | COIL | 10µH |
| | L7304 | NQL315K-100X | COIL | 10µH |
| | L7401 | NQL085J-100X | COIL | 10µH |
| | L7402 | NQL315K-100X | COIL | 10µH |
| | L7501 | NQL144K-220X | COIL | 22µH |
| | T7501 | NQS0052-001X | SW TRANSF | |
| | T7502 | NAX0334-001 | PIEZOELE TRANSF | |
| | CN7501 | QGF0304F1-39X | FFC/FPC CONNECTOR | |
| | CN7502 | QGF0517F1-24X | FPC CONNECTOR | |
| ⚠ | F7501 | NMFZ009-R50X-J1 | FUSE | T0.5A |

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## JACK BOARD ASSEMBLY <07>

| # ⚠ | REF No. | PART No. | PART NAME, DESCRIPTION | |
|---|---|---|---|---|
| | PW1 | YB10305A1-03 | JACK BOARD ASSY | |
| | IC2822 | TC7S04FU | IC(DIGITAL) | |
| | Q2801 | DTC144EE | TRANSISTOR | |
| | | or RN1104 | TRANSISTOR | |
| | | or UN9213J | TRANSISTOR | |
| | Q2821 | 2SC4617/QR/-X | TRANSISTOR | |
| | D2821 | EMZ6.8N | ZENER DIODE | |
| | D2822 | EMZ6.8N | ZENER DIODE | |
| | D2823 | EMZ6.8N | ZENER DIODE | |
| | D2825 | RB715F | SB DIODE | |
| | R2801 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| | R2802 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| | R2803 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| | R2804 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| | R2805 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| | R2806 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| | R2807 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| | R2808 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| | R2809 | NRSA63J-473X | MG RESISTOR | 47kΩ,1/16W |
| | R2810 | NRSA63J-103X | MG RESISTOR | 10kΩ,1/16W |
| | R2812 | NRSA63J-103X | MG RESISTOR | 10kΩ,1/16W |
| | R2813 | NRSA63J-473X | MG RESISTOR | 47kΩ,1/16W |
| | R2814 | NRSA63J-104X | MG RESISTOR | 100kΩ,1/16W |
| | R2816 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| | R2818 | NRSA63J-473X | MG RESISTOR | 47kΩ,1/16W |
| | R2821 | NRSA63J-101X | MG RESISTOR | 100Ω,1/16W |
| | R2822 | NRSA63J-470X | MG RESISTOR | 47Ω,1/16W |
| | R2823 | NRSA63J-101X | MG RESISTOR | 100Ω,1/16W |
| | R2824 | NRSA63J-101X | MG RESISTOR | 100Ω,1/16W |

| # ⚠ | REF No. | PART No. | PART NAME, DESCRIPTION | |
|---|---|---|---|---|
| | R2825 | NRSA63J-101X | MG RESISTOR | 100Ω,1/16W |
| | R2826 | NRSA63J-101X | MG RESISTOR | 100Ω,1/16W |
| | R2828 | NRSA63J-472X | MG RESISTOR | 4.7kΩ,1/16W |
| | R2829 | NRSA63J-103X | MG RESISTOR | 10kΩ,1/16W |
| | R2830 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| | R2831 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| | R2832 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| | R2833 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| | R2841 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| | R2844 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| | R2845 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| | R2848 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| | R2861 | NRSA63J-103X | MG RESISTOR | 10kΩ,1/16W |
| | R2862 | NRSA63J-391X | MG RESISTOR | 390Ω,1/16W |
| | R2883 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| | R2885 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| | C2802 | NBE80JM-106X | T CAPACITOR | 10μF,6.3V |
| | C2821 | NCB31EK-103X | CAPACITOR | 0.01μF,25V |
| | C2841 | NCB31CK-683X | CAPACITOR | 0.068μF,16V |
| | C2842 | NCB31CK-683X | CAPACITOR | 0.068μF,16V |
| | C2843 | NCB31HK-102X | CAPACITOR | 0.001μF,50V |
| | C2844 | NCB31HK-102X | CAPACITOR | 0.001μF,50V |
| | C2848 | NCB31HK-472X | CAPACITOR | 0.0047μF,50V |
| | C2849 | NCB31HK-472X | CAPACITOR | 0.0047μF,50V |
| | C2881 | NCB31EK-103X | CAPACITOR | 0.01μF,25V |
| | C2882 | NCB31EK-103X | CAPACITOR | 0.01μF,25V |
| | C2883 | NCB31EK-103X | CAPACITOR | 0.01μF,25V |
| | L2801 | NQR0129-002X | FERRITE BEAD | |
| | L2821 | NQR0006-001X | FERRITE BEAD | |
| | L2841 | NQR0251-004X | FERRITE BEAD | |
| | L2842 | NQR0251-004X | FERRITE BEAD | |
| | L2843 | NQR0251-004X | FERRITE BEAD | |
| | L2844 | NQR0251-004X | FERRITE BEAD | |
| | L2845 | NQR0251-004X | FERRITE BEAD | |
| | J301 | NNZ0038-001X | D CONNECTOR,PRINTER | |
| | J302 | QNS0012-001 | 3.5 JACK,HP | |
| | J303 | QNS0078-001 | 3.5 JACK,AV | |
| | CN301 | QGF0301F1-45X | FPC CONNECTOR | |
| | CN302 | NNZ0042-001X | SD CARD CONNECTOR | |
| | CN303 | QGF0501F1-11X | FPC CONNECTOR | |
| | CN304 | QGA1201F2-02X | CONNECTOR | |
| ⚠ | BT301 | QAB0020-001 | LI BATTERY | |

******************************

## EJECT BOARD ASSEMBLY <08>

| # ⚠ | REF No. | PART No. | PART NAME, DESCRIPTION | |
|---|---|---|---|---|
| | PW2 | YB10305A2-01 | EJECT BOARD ASSY | |
| | R2421 | NRSA63J-103X | MG RESISTOR | 10kΩ,1/16W |
| | R2424 | NRSA63J-103X | MG RESISTOR | 10kΩ,1/16W |
| | R2425 | NRSA63J-103X | MG RESISTOR | 10kΩ,1/16W |
| | S2421 | NSW0094-001X | DETECT SWITCH,EJECT SW | |
| | CN2421 | QGF0512C1-12X | FPC CONNECTOR | |
| | CN2422 | QGF0501F2-13X | FPC CONNECTOR | |

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## DECK OPE. BOARD ASSEMBLY <09>

| # ⚠ | REF No. | PART No. | PART NAME, DESCRIPTION | |
|---|---|---|---|---|
| | PW3 | YB10305A3-01 | DECK OPE.BOARD ASSY | |
| | R2432 | NRSA63J-152X | MG RESISTOR | 1.5kΩ,1/16W |
| | R2433 | NRSA63J-182X | MG RESISTOR | 1.8kΩ,1/16W |
| | R2434 | NRSA63J-272X | MG RESISTOR | 2.7kΩ,1/16W |
| | R2437 | NRSA63J-152X | MG RESISTOR | 1.5kΩ,1/16W |
| | R2438 | NRSA63J-182X | MG RESISTOR | 1.8kΩ,1/16W |
| | R2439 | NRSA63J-272X | MG RESISTOR | 2.7kΩ,1/16W |
| | R2440 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| | R2441 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| | R2442 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| | R2443 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| | R2444 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| | R2445 | NRSA63J-0R0X | MG RESISTOR | 0Ω,1/16W |
| | C2431 | NCB31EK-103X | CAPACITOR | 0.01μF,25V |
| | S2431 | NSW0035-001X | TACT SWITCH,STOP | |
| | S2432 | NSW0035-001X | TACT SWITCH,REW | |
| | S2433 | NSW0035-001X | TACT SWITCH,PB | |
| | S2434 | NSW0035-001X | TACT SWITCH,FF | |
| | S2435 | NSW0035-001X | TACT SWITCH,P MEDIA | |
| | S2436 | NSW0071-001X | DETECT SWITCH,MONI OPEN | |
| | CN2431 | QGF0517F1-08X | FPC CONNECTOR | |
| | CN2432 | QGF0517F1-06X | FPC CONNECTOR | |

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## CCD BOARD ASSEMBLY <10>

| # ⚠ | REF No. | PART No. | PART NAME, DESCRIPTION | |
|---|---|---|---|---|
| | PW | YB10307A-01 | CCD BOARD ASSY | |
| | Q5201 | 2SC3935/Q/-X | TRANSISTOR | |
| | R5201 | NRSA63J-122X | MG RESISTOR | 1.2kΩ,1/16W |
| | C5202 | NCF31EZ-104X | CAPACITOR | 0.1μF,25V |
| | C5203 | NBE41AM-476X | T CAPACITOR | 47μF,10V |
| | C5204 | NCB31CK-104X | CAPACITOR | 0.1μF,16V |
| | C5205 | NCB31CK-104X | CAPACITOR | 0.1μF,16V |
| | C5206 | NBZ0003-475X | T CAPACITOR | 4.7μF |
| | C5207 | NCF31EZ-104X | CAPACITOR | 0.1μF,25V |
| | C5208 | NCB31HK-222X | CAPACITOR | 0.0022μF,50V |
| | C5209 | NCB21EK-104X | CAPACITOR | 0.1μF,25V |
| | WR1 | WJR0018-001A | E-SH C WIRE C-F,CCD OUT-MAIN CN101 | |

# SECTION 4
# CHARTS AND DIAGRAMS

## NOTES OF SCHEMATIC DIAGRAM

**Safety precautions**
**The Components identified by the symbol ⚠ are critical for safety. For continued safety, replace safety critical components only with manufacturer's recommended parts.**

### 1. Units of components on the schematic diagram

Unless otherwise specified.

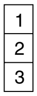
1) All resistance values are in ohm, 1/6 W, 1/8 W (refer to parts list).
   Chip resistors are 1/16 W.
   K or k: kΩ (1000Ω), M: MΩ (1000kΩ)
2) All capacitance values are in μF, (P: PF).
3) All inductance values are in μH, (m: mH).
4) All diodes are 1SS133, MA165 or 1N4148M (refer to parts list).

### 2. Indications of control voltage

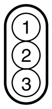
AUX : Active at high

$\overline{\text{AUX}}$ or AUX(L) : Active at low

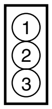
### 3. Interpreting Connector indications



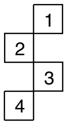
Removable connector



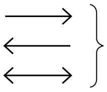
Wire soldered directly on board



Non-removable Board connector



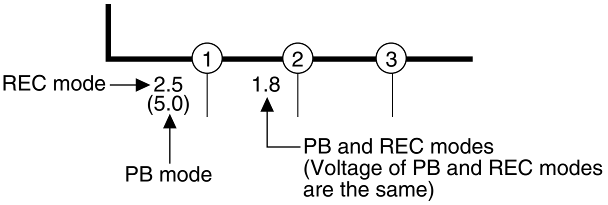
Board to Board



Connected pattern on board
The arrows indicate signal path

### 4. Voltage measurement

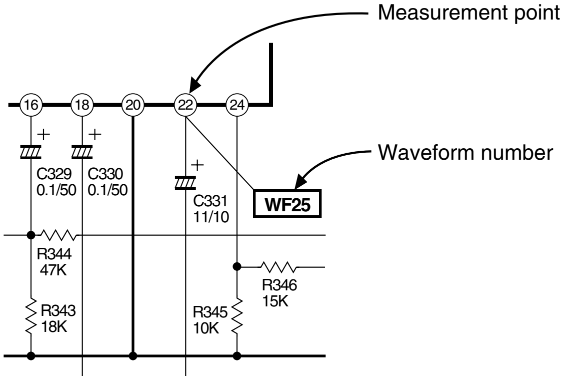
1) Video circuits
   REC : Colour bar signal in SP mode, normal VHS mode
   PB : Alignment tape, colour bar SP mode, normal VHS mode
   — : Unmeasurable or unnecessary to measure
2) Audio circuits
   REC : 1KHz, –8 dBs sine wave signal in SP mode, Normal VHS mode
   PB : REC then playback it
3) Movie Camera circuits
   Measured using a correctly illuminated gray scale or colour bar test charts in the E-E mode
4) Indication on schematic diagram
   Voltage Indications for REC and PB mode on the schematic diagram are as shown below.


1
2
3
REC mode
2.5
(5.0)
1.8
PB mode
PB and REC modes
(Voltage of PB and REC modes are the same)

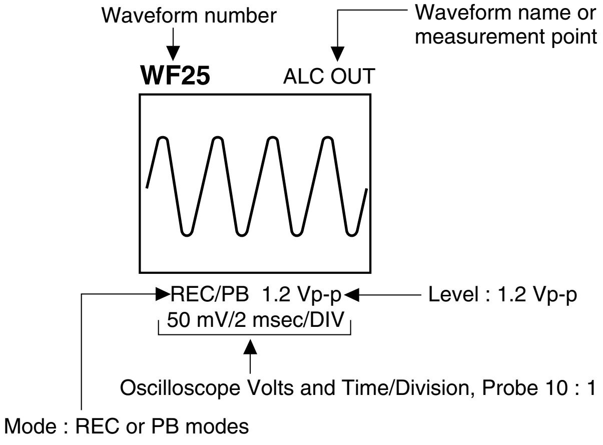
**Note: If the voltages are not indicated on the schematic diagram, refer to the voltage charts.**

### 5. Waveform measurement

1) Video circuits
   REC : Colour bar signal in SP mode, normal VHS mode
   PB : Alignment tape, colour bar SP mode, normal VHS mode
2) Audio circuits
   REC : 1KHz, –8 dBs sine wave signal in SP mode, normal VHS mode
   PB : REC then playback it
3) Movie Camera circuits
   Measured using a correctly illuminated gray scale or colour bar test chatrs in the E-E mode
4) Indication on schematic diagram
   Waveform indications on the schematic diagram are as shown below.


Measurement point
16
18
20
22
24
C329
0.1/50
C330
0.1/50
C331
11/10
WF25
Waveform number
R344
47K
R343
18K
R345
10K
R346
15K

5) Waveform indications


Waveform number
Waveform name or measurement point
WF25
ALC OUT
REC/PB 1.2 Vp-p
50 mV/2 msec/DIV
Level : 1.2 Vp-p
Oscilloscope Volts and Time/Division, Probe 10 : 1
Mode : REC or PB modes

### 6. Signal path Symbols

The arrows indicate the signal path as follows.

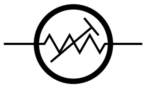
| | |
|---|---|
| ⇨ | Playback signal path |
| ▭▶ | Playback and recording signal path |
| ➡ | Recording signal path<br>(including E-E signal path) |
| ⇨▷ | Capstan servo path |
| ➡▶ | Drum servo path |

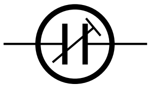
(Example)

| | |
|---|---|
| ⇨ R-Y | Playback R-Y signal path |
| ➡ Y | Recording Y signal path |

### 7. Indication of the parts for adjustments

The parts for the adjustments are surrounded with the circle as shown below.





### 8. Indication of the parts not mounted on the circuit board

"OPEN" is indicated by the parts not mounted on the circuit board.

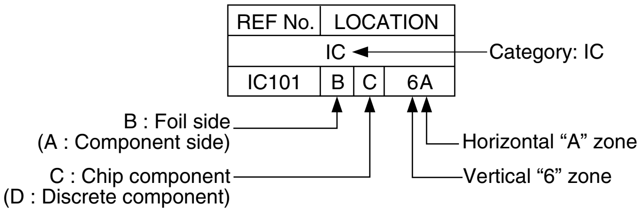
## CIRCUIT BOARD NOTES

### 1. Foil and Component sides

1) Foil side (B side) :
   Parts on the foil side seen from foil face (pattern face) are indicated.
2) Component side (A side) :
   Parts on the component side seen from component face (parts face) indicated.

### 2. Parts location guides

Parts location are indicated by guide scale on the circuit board.

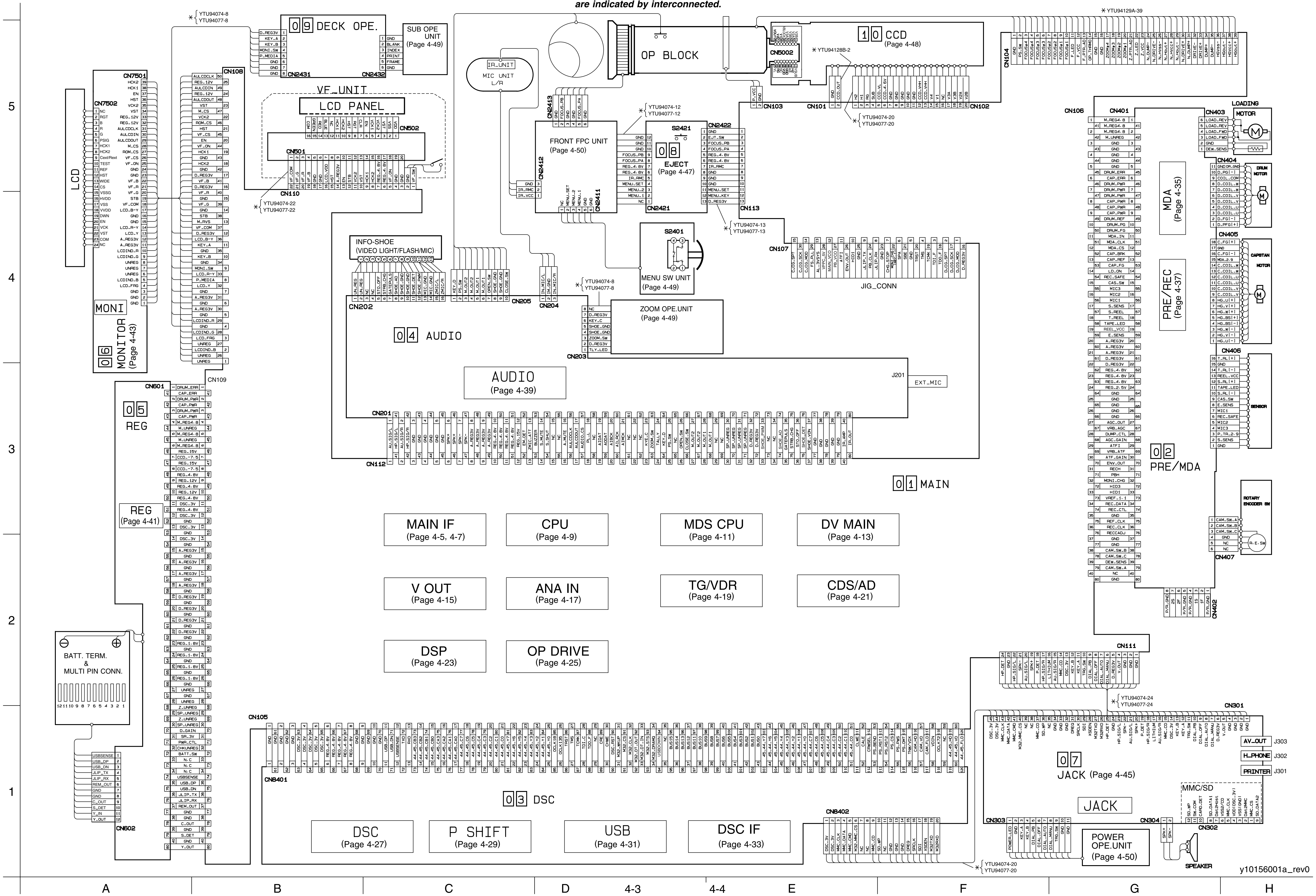

REF No.
LOCATION
IC
Category: IC
IC101
B
C
6A
B : Foil side
(A : Component side)
C : Chip component
(D : Discrete component)
Horizontal "A" zone
Vertical "6" zone

**Note:**

**For general information in service manual, please refer to the Service Manual of GENERAL INFORMATION Edition 4 No. 82054D (January 1994).**

## 4.1 BOARD INTERCONNECTIONS

***NOTE ) ⚹ : The number of patch cords are indicated by interconnected.***

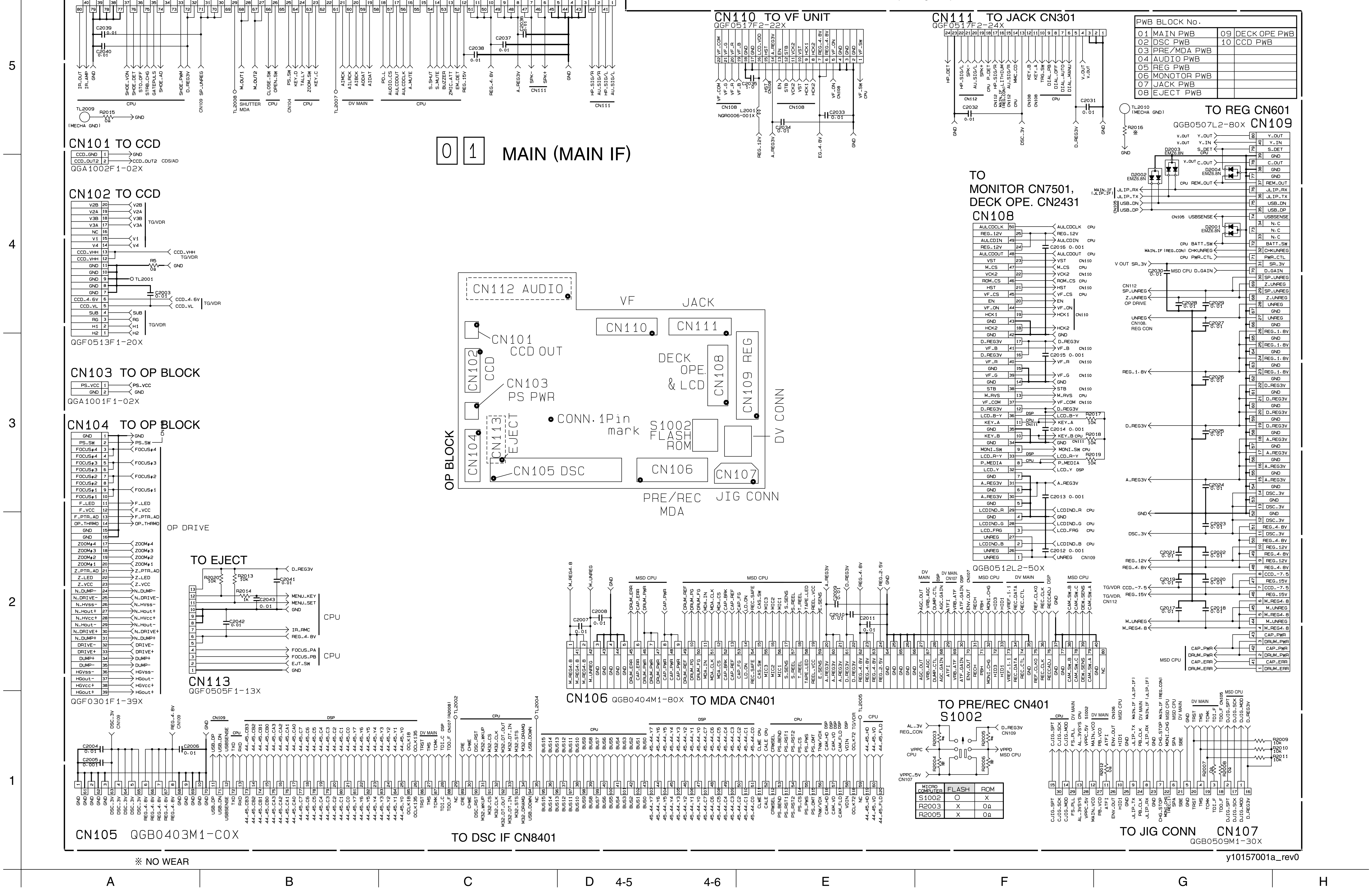


LCD
CN7502
CN7501
06 MONITOR (Page 4-43)
MONI
CN108
CN109
CN110
YTU94074-8
YTU94077-8
09 DECK OPE.
CN2431
CN2432
SUB OPE UNIT (Page 4-49)
VF_UNIT
LCD PANEL
CN502
CN501
YTU94074-22
YTU94077-22
IR_UNIT
MIC UNIT L/R
OP BLOCK
CN5002
YTU94128B-2
10 CCD (Page 4-48)
YTU94129A-39
CN104
CN103
CN101
CN102
YTU94074-20
YTU94077-20
CN2413
CN2412
CN2411
FRONT FPC UNIT (Page 4-50)
YTU94074-12
YTU94077-12
S2421
08 EJECT (Page 4-47)
CN2422
CN2421
CN113
YTU94074-13
YTU94077-13
S2401
MENU SW UNIT (Page 4-49)
CN107
JIG_CONN
INFO-SHOE (VIDEO LIGHT/FLASH/MIC)
CN202
CN205
CN204
YTU94074-8
YTU94077-8
ZOOM OPE.UNIT (Page 4-49)
CN203
04 AUDIO
AUDIO (Page 4-39)
J201
EXT_MIC
CN201
CN112
01 MAIN
CN601
05 REG
REG (Page 4-41)
MAIN IF (Page 4-5, 4-7)
CPU (Page 4-9)
MDS CPU (Page 4-11)
DV MAIN (Page 4-13)
V OUT (Page 4-15)
ANA IN (Page 4-17)
TG/VDR (Page 4-19)
CDS/AD (Page 4-21)
DSP (Page 4-23)
OP DRIVE (Page 4-25)
BATT. TERM. & MULTI PIN CONN.
CN602
CN105
CN8401
03 DSC
DSC (Page 4-27)
P SHIFT (Page 4-29)
USB (Page 4-31)
DSC IF (Page 4-33)
CN8402
YTU94074-20
YTU94077-20
CN106
CN401
MDA (Page 4-35)
PRE/REC (Page 4-37)
02 PRE/MDA
CN403
LOADING MOTOR
CN404
DRUM MOTOR
CN405
CAPSTAN MOTOR
CN406
SENSOR
ROTARY ENCODER SW
R-E-SW
CN407
CN402
CN111
YTU94074-24
YTU94077-24
CN301
07 JACK (Page 4-45)
AV_OUT J303
H_PHONE J302
PRINTER J301
MMC/SD
JACK
CN303
POWER OPE.UNIT (Page 4-50)
CN304
CN302
SPEAKER
A
B
C
D
E
F
G
H
1
2
3
4
5

y10156001a_rev0

## 4.2 MAIN IF SCHEMATIC DIAGRAM (1/2)

*NOTES :*
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.*


CN112 QGB0402J1-80X TO AUDIO CN201
CN110 TO VF UNIT QGF0517F2-22X
CN111 TO JACK CN301 QGF0517F2-24X
PWB BLOCK No.
01 MAIN PWB
02 DSC PWB
03 PRE/MDA PWB
04 AUDIO PWB
05 REG PWB
06 MONOTOR PWB
07 JACK PWB
08 EJECT PWB
09 DECK OPE PWB
10 CCD PWB
0 1 MAIN (MAIN IF)
CN101 TO CCD QGA1002F1-02X
CN102 TO CCD QGF0513F1-20X
CN103 TO OP BLOCK QGA1001F1-02X
CN104 TO OP BLOCK QGF0301F1-39X
OP DRIVE
TO EJECT
CN113 QGF0505F1-13X
CPU
TO MONITOR CN7501, DECK OPE. CN2431
CN108 QGB0512L2-50X
TO REG CN601 QGB0507L2-80X CN109
CN112 AUDIO
VF
JACK
CN101 CCD OUT
CN102 CCD
CN103 PS PWR
CN113 EJECT
CN104
OP BLOCK
CONN. 1Pin mark
CN105 DSC
CN106
CN107
PRE/REC MDA
JIG CONN
S1002 FLASH ROM
DECK OPE. & LCD
CN109 REG
DV CONN
CN106 QGB0404M1-80X TO MDA CN401
TO PRE/REC CN401 S1002
MICRO COMPUTER | FLASH | ROM
S1002 | O | X
R2003 | X | 0Ω
R2005 | X | 0Ω
CN105 QGB0403M1-C0X
TO DSC IF CN8401
TO JIG CONN CN107 QGB0509M1-30X
TL2009 (MECHA GND)
TL2010 (MECHA GND)
※ NO WEAR
y10157001a_rev0
1
2
3
4
5
A
B
C
D
E
F
G
H

## 4.3 MAIN IF SCHEMATIC DIAGRAM (2/2)

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.*

5

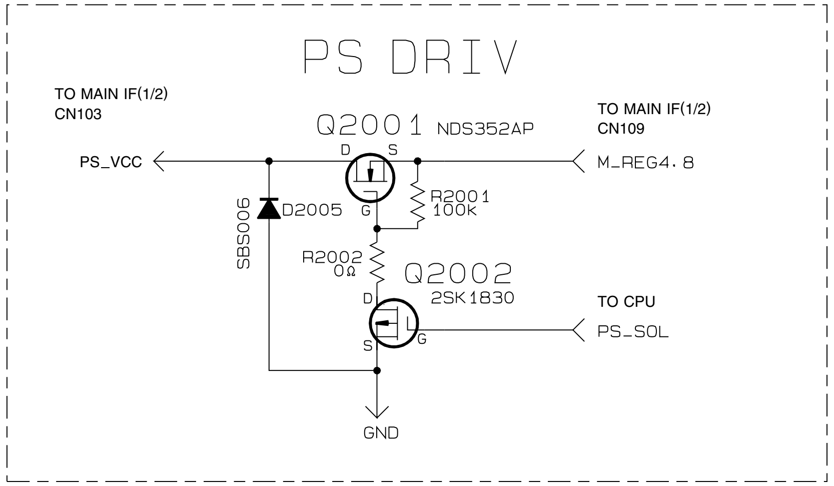
4

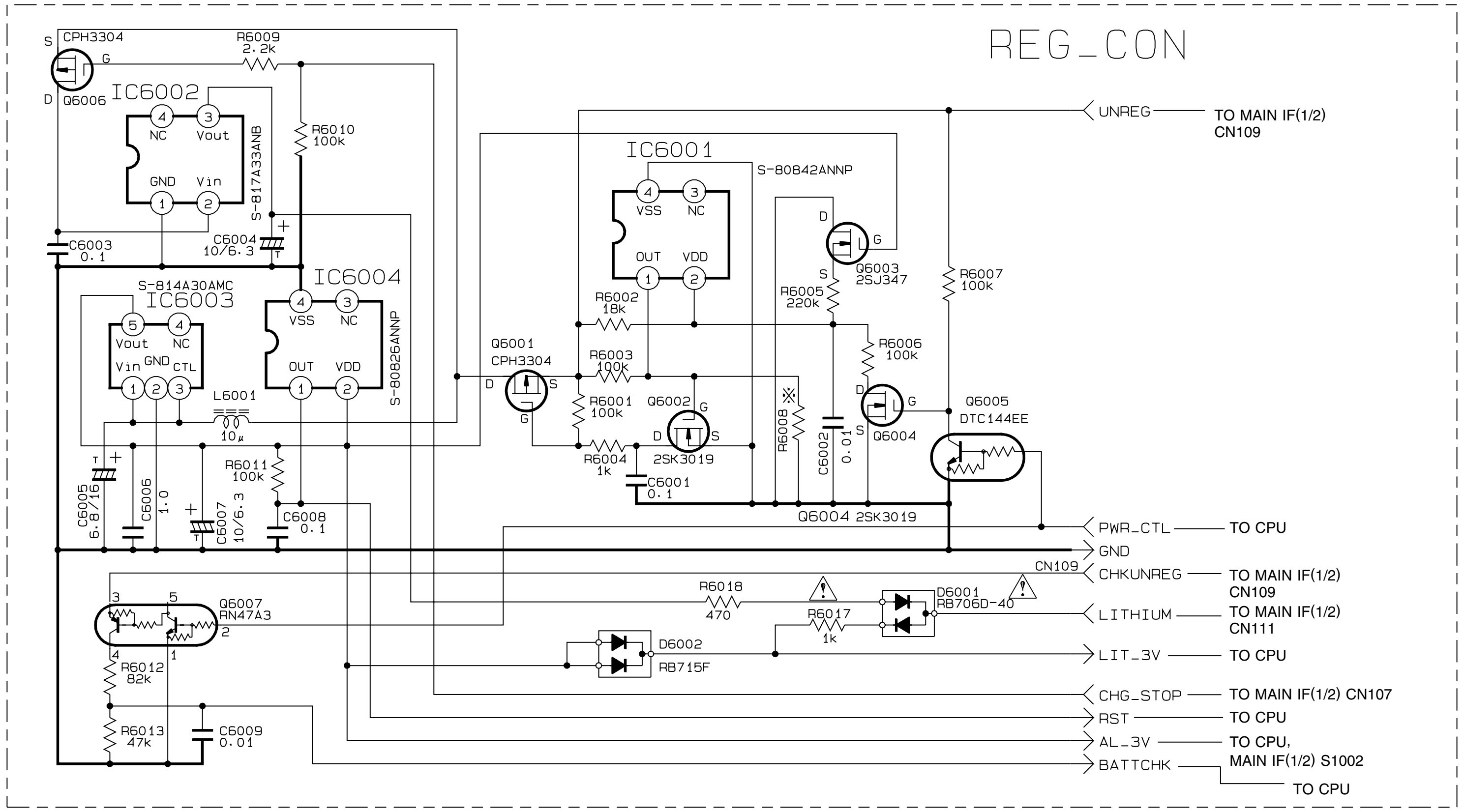
3

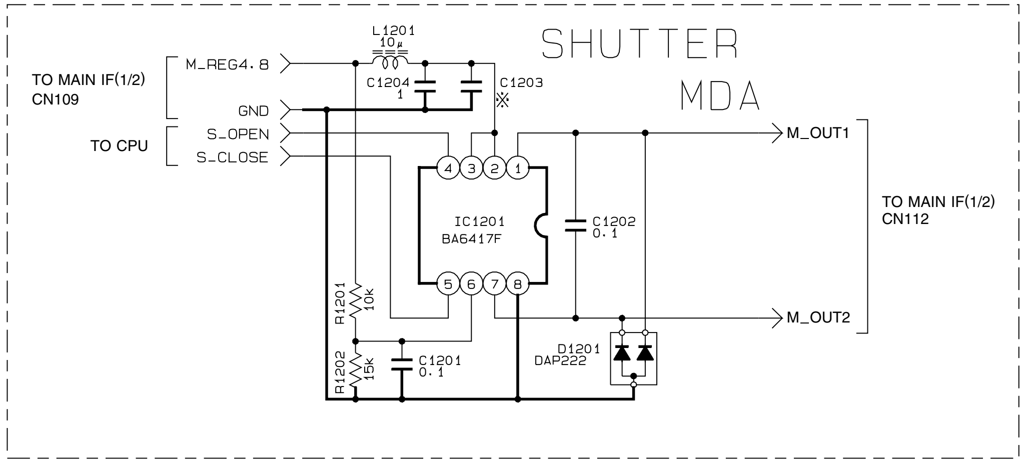
2

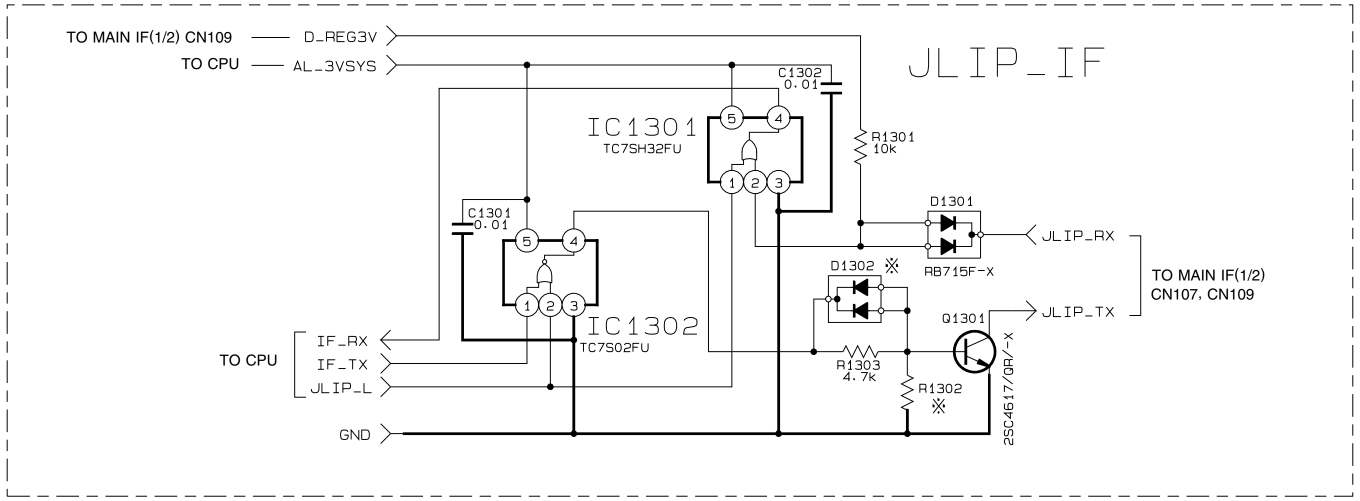
1

### 0 1 MAIN (MAIN IF)


PS DRIV
TO MAIN IF(1/2) CN103
PS_VCC
Q2001 NDS352AP
D S G
R2001 100k
TO MAIN IF(1/2) CN109
M_REG4.8
SBS006
D2005
R2002 0Ω
Q2002 2SK1830
TO CPU
PS_SOL
GND


REG_CON
CPH3304
Q6006
R6009 2.2k
IC6002
NC Vout GND Vin
S-817A33ANB
R6010 100k
C6003 0.1
C6004 10/6.3
S-814A30AMC
IC6003
Vout NC Vin GND CTL
IC6004
VSS NC OUT VDD
S-80826ANNP
L6001 10μ
R6011 100k
C6005 6.8/16
C6006 1.0
C6007 10/6.3
C6008 0.1
IC6001
S-80842ANNP
VSS NC OUT VDD
Q6003 2SJ347
R6005 220k
R6002 18k
R6003 100k
R6001 100k
R6004 1k
Q6001 CPH3304
Q6002 2SK3019
C6001 0.1
R6008 ※
C6002 0.01
R6006 100k
Q6004
R6007 100k
Q6005 DTC144EE
Q6004 2SK3019
UNREG
TO MAIN IF(1/2) CN109
PWR_CTL — TO CPU
GND
CN109
CHKUNREG — TO MAIN IF(1/2) CN109
R6018 470
R6017 1k
D6001 RB706D-40
LITHIUM — TO MAIN IF(1/2) CN111
D6002 RB715F
LIT_3V — TO CPU
Q6007 RN47A3
R6012 82k
R6013 47k
C6009 0.01
CHG_STOP — TO MAIN IF(1/2) CN107
RST — TO CPU
AL_3V — TO CPU, MAIN IF(1/2) S1002
BATTCHK — TO CPU


SHUTTER MDA
TO MAIN IF(1/2) CN109
M_REG4.8
GND
TO CPU
S_OPEN
S_CLOSE
L1201 10μ
C1204 1
C1203 ※
IC1201 BA6417F
C1202 0.1
M_OUT1
M_OUT2
TO MAIN IF(1/2) CN112
R1201 10k
R1202 15k
C1201 0.1
D1201 DAP222


JLIP_IF
TO MAIN IF(1/2) CN109 — D_REG3V
TO CPU — AL_3VSYS
C1302 0.01
IC1301 TC7SH32FU
R1301 10k
D1301 RB715F-X
JLIP_RX
TO MAIN IF(1/2) CN107, CN109
C1301 0.01
IC1302 TC7S02FU
D1302 ※
JLIP_TX
Q1301
TO CPU
IF_RX
IF_TX
JLIP_L
R1303 4.7k
R1302 ※
2SC4617/QR/-X
GND

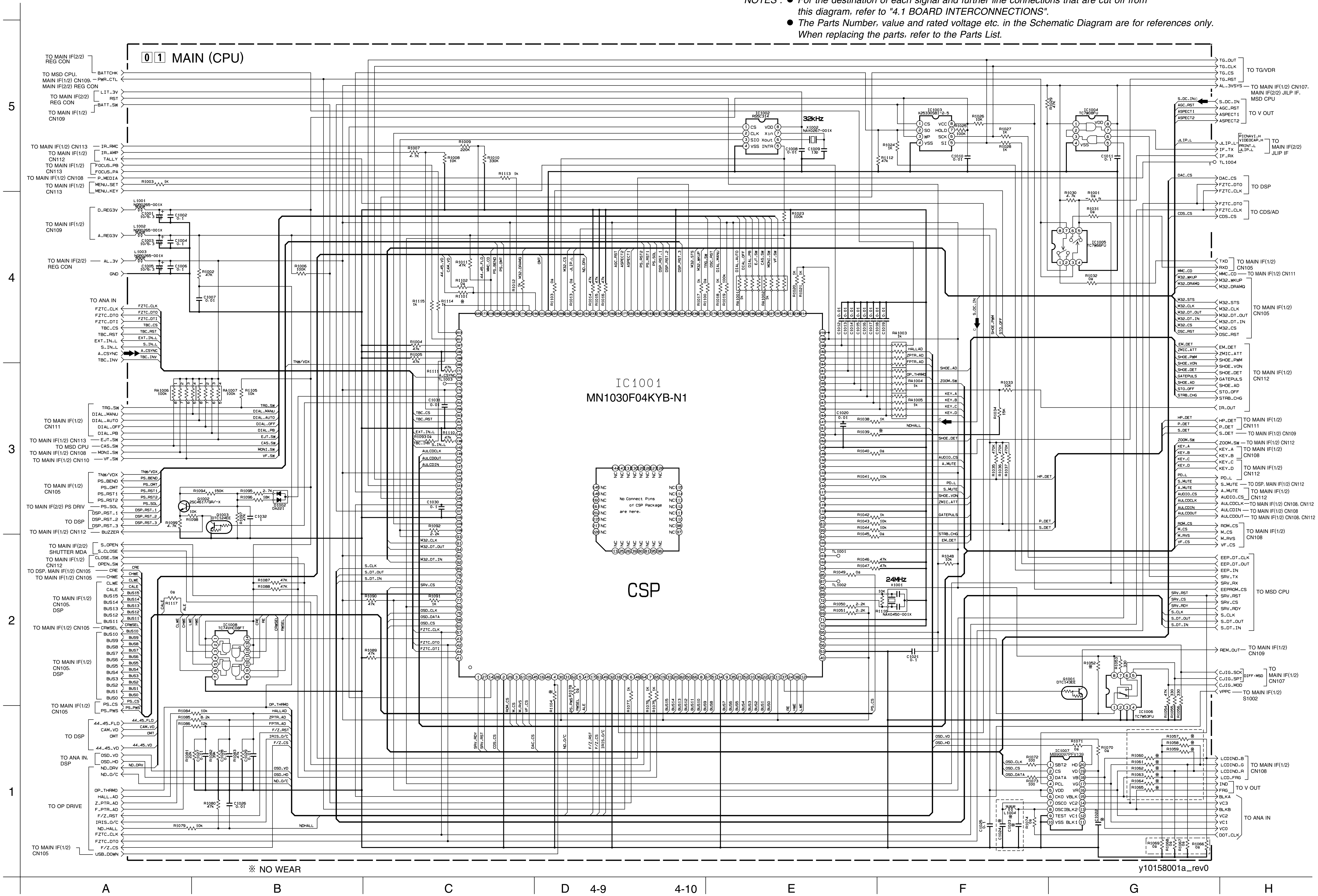
y10157001a_reV0

※ NO WEAR

A B C D E F G H

## 4.4 CPU SCHEMATIC DIAGRAM

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.*



01 MAIN (CPU)
IC1001
MN1030F04KYB-N1
CSP
No Connect Pins of CSP Package are here.
IC1002 RS5C314
32kHz
X1002 NAX0267-001X
IC1003 X25330S8I-2.5
IC1004 TC7W08FU
IC1005 TC7W66FU
IC1006 TC7W53FU
IC1007 MB90097PFV139
IC1008 TC74VHC08FT
Q1001 DTC143EE
Q1002 2SC4617QR/-X
Q1003 DTC124EE
D1002 DA221
24MHz X1001 NAX0450-001X
L1001 NQR0265-001X
L1002 NQR0265-001X
L1003 NQR0265-001X
TO MAIN IF(2/2) REG CON
TO MSD CPU, MAIN IF(1/2) CN109, MAIN IF(2/2) REG CON
TO MAIN IF(2/2) REG CON
TO MAIN IF(1/2) CN109
TO MAIN IF(1/2) CN113
TO MAIN IF(1/2) CN112
TO MAIN IF(1/2) CN108
TO ANA IN
TO MAIN IF(1/2) CN111
TO MSD CPU
TO MAIN IF(1/2) CN110
TO MAIN IF(1/2) CN105
TO MAIN IF(2/2) PS DRIV
TO DSP
TO MAIN IF(2/2) SHUTTER MDA
TO DSP, MAIN IF(1/2) CN105
TO MAIN IF(1/2) CN105, DSP
TO ANA IN, DSP
TO OP DRIVE
TO TG/VDR
TO MAIN IF(1/2) CN107, MAIN IF(2/2) JLIP IF, MSD CPU
TO V OUT
TO MAIN IF(2/2) JLIP IF
TO DSP
TO CDS/AD
TO MAIN IF(1/2) CN105
TO MAIN IF(1/2) CN111
TO MAIN IF(1/2) CN112
TO MAIN IF(1/2) CN109
TO MAIN IF(1/2) CN108
TO MSD CPU
TO MAIN IF(1/2) CN107
TO MAIN IF(1/2) S1002
TO ANA IN
※ NO WEAR
y10158001a_rev0
A
B
C
D
E
F
G
H
1
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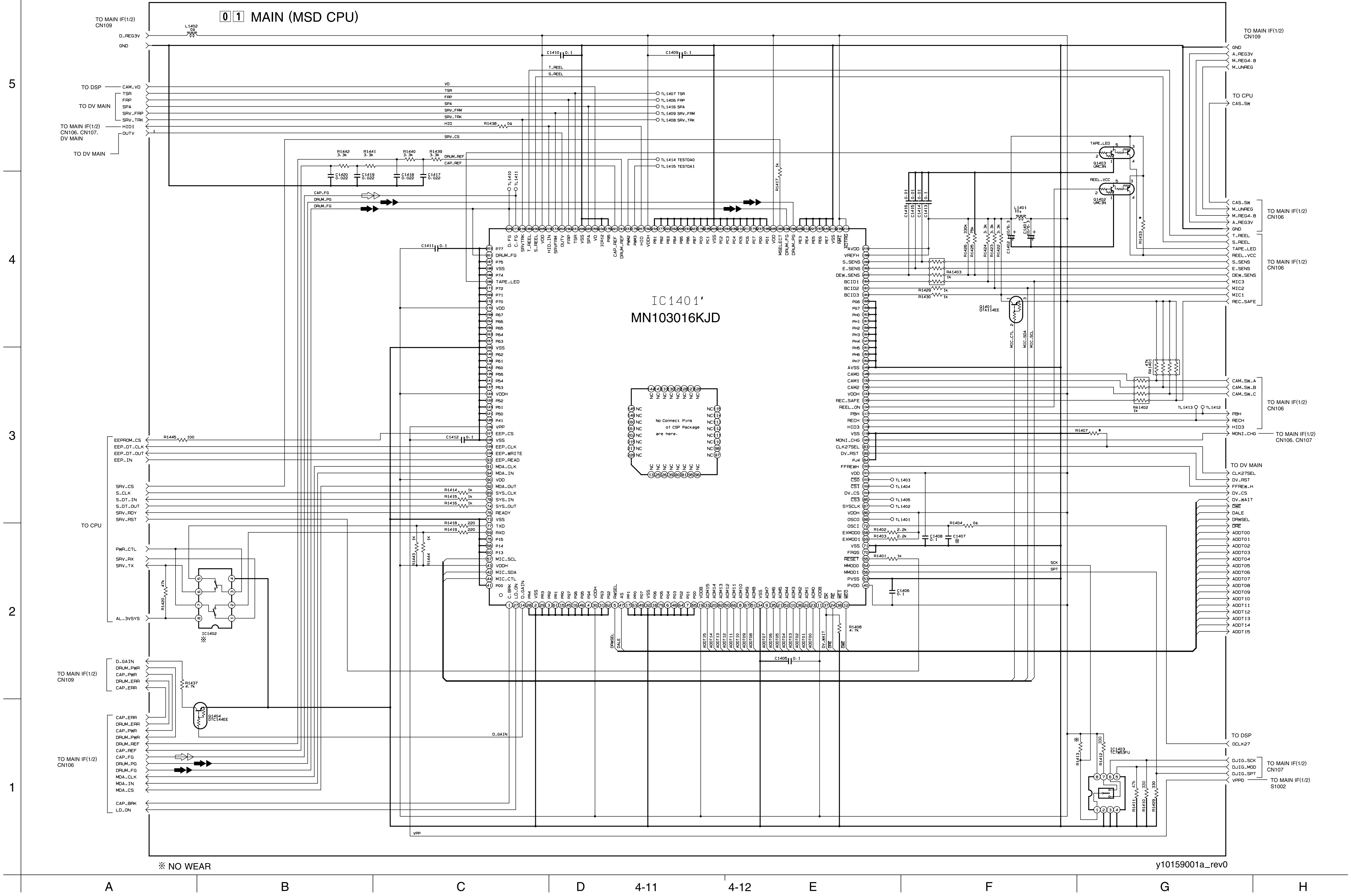
## 4.5 MSD CPU SCHEMATIC DIAGRAM

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.*



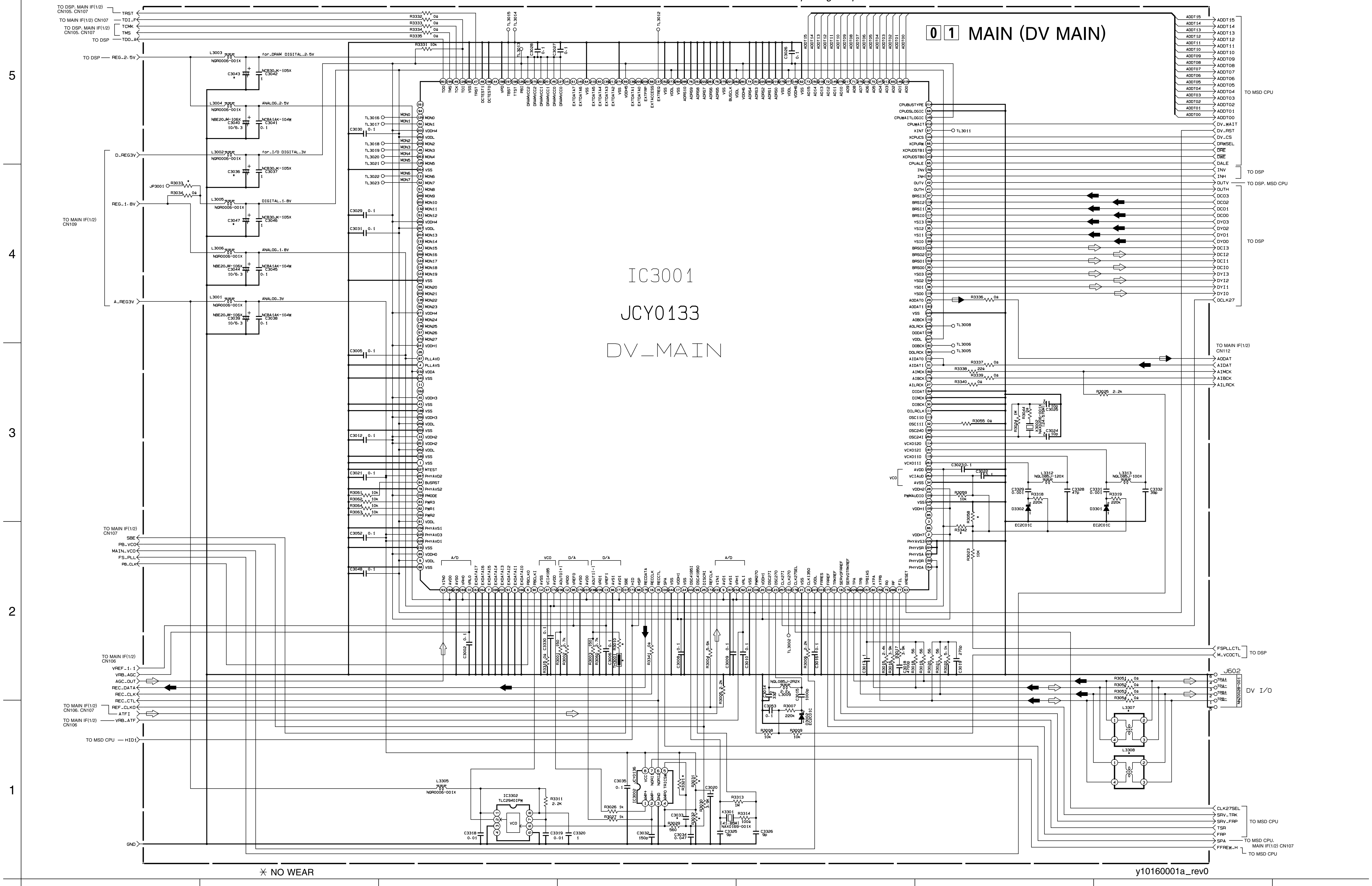
01 MAIN (MSD CPU)
IC1401
MN103016KJD
No Connect Pins of CSP Package are here.
TO MAIN IF(1/2) CN109
D_REG3V
GND
L1402
TO DSP
CAM_VD
TO DV MAIN
TSR
FRP
SPA
SRV_FRM
SRV_TRK
TO MAIN IF(1/2) CN106, CN107, DV MAIN
HID1
OUTV
TO DV MAIN
C1410 0.1
C1409 0.1
T_REEL
S_REEL
TL1407 TSR
TL1406 FRP
TL1416 SPA
TL1409 SRV_FRM
TL1408 SRV_TRK
R1438 0Ω
SRV_CS
R1442 3.3k
R1441 3.3k
R1440 3.3k
R1439 3.3k
DRUM_REF
CAP_REF
C1420 0.022
C1419 0.022
C1418 0.022
C1417 0.022
TL1410
TL1411
TL1414 TESTDA0
TL1415 TESTDA1
R1417 1k
CAP_FG
DRUM_PG
DRUM_FG
C1411 0.1
TO MAIN IF(1/2) CN109
GND
A_REG3V
M_REG4.8
M_UNREG
TO CPU
CAS_SW
TAPE_LED
Q1403 UMC3N
REEL_VCC
Q1402 UMC3N
C1416 0.01
C1415 0.01
C1414 0.01
C1413 0.1
L1401 10μ
R1433
TO MAIN IF(1/2) CN106
CAS_SW
M_UNREG
M_REG4.8
A_REG3V
GND
T_REEL
S_REEL
TAPE_LED
REEL_VCC
S_SENS
E_SENS
DEW_SENS
MIC3
MIC2
MIC1
REC_SAFE
RA1403 1k
R1429 1k
R1430 1k
Q1401 DTA114EE
MIC_CTL
MIC_SDA
MIC_SCL
RA1401 47k
RA1402 1k
CAM_SW_A
CAM_SW_B
CAM_SW_C
TL1413
TL1412
PBH
RECH
HID3
MONI_CHG
R1407
TO MAIN IF(1/2) CN106, CN107
TO DV MAIN
CLK27SEL
DV_RST
FFREW_H
DV_CS
DV_WAIT
DWE
DALE
DRWSEL
DRE
ADDT00
ADDT01
ADDT02
ADDT03
ADDT04
ADDT05
ADDT06
ADDT07
ADDT08
ADDT09
ADDT10
ADDT11
ADDT12
ADDT13
ADDT14
ADDT15
TL1403
TL1404
TL1405
TL1402
TL1401
R1404 0Ω
R1402 2.2k
R1403 2.2k
C1408 0.1
C1407 ※
R1401 1k
SCK
SPT
C1406 0.1
R1408 4.7k
C1405 0.1
EEPROM_CS
EEP_DT_CLK
EEP_DT_OUT
EEP_IN
R1445 100
C1412 0.1
TO CPU
SRV_CS
S_CLK
S_DT_IN
S_DT_OUT
SRV_RDY
SRV_RST
PWR_CTL
SRV_RX
SRV_TX
AL_3VSYS
R1414 1k
R1415 1k
R1416 1k
R1418 220
R1419 220
R1443 1k
R1444 1k
R1420 47k
IC1402 ※
TO MAIN IF(1/2) CN109
D_GAIN
DRUM_PWR
CAP_PWR
DRUM_ERR
CAP_ERR
R1437 4.7k
Q1404 DTC144EE
TO MAIN IF(1/2) CN106
CAP_ERR
DRUM_ERR
CAP_PWR
DRUM_PWR
DRUM_REF
CAP_REF
CAP_FG
DRUM_PG
DRUM_FG
MDA_CLK
MDA_IN
MDA_CS
CAP_BRK
LD_ON
D_GAIN
VPP
TO DSP
OCLK27
IC1403 TC7W53FU
R1413 ※
R1412 330
R1411 47k
R1410 330
R1409 330
TO MAIN IF(1/2) CN107
DJIG_SCK
DJIG_MOD
DJIG_SPT
TO MAIN IF(1/2) S1002
VPPD
5
4
3
2
1
A
B
C
D
E
F
G
H

※ NO WEAR

y10159001a_rev0

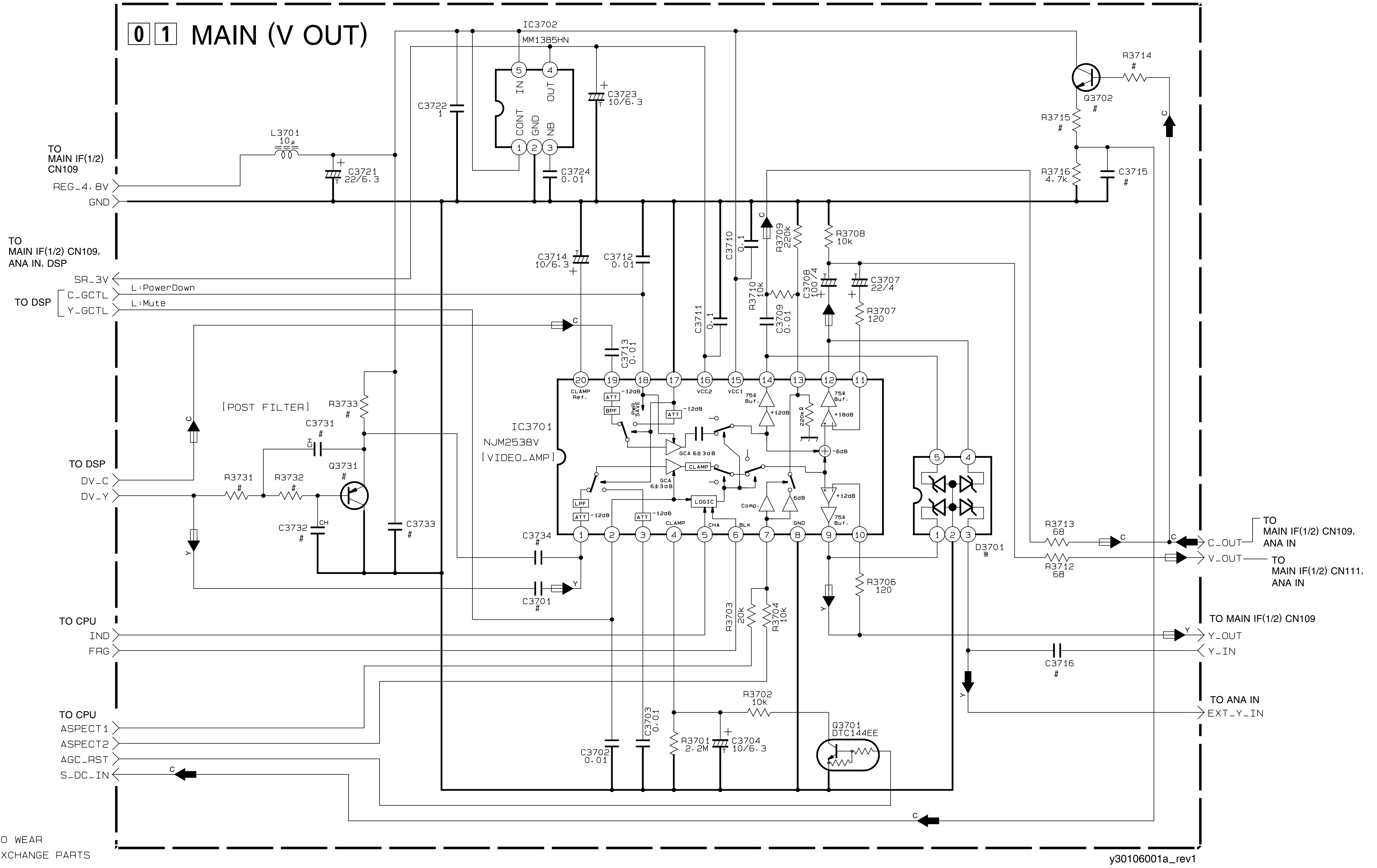
## 4.6 DV MAIN SCHEMATIC DIAGRAM

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.*


01 MAIN (DV MAIN)
IC3001
JCY0133
DV_MAIN
IC3302
TLC2940IPW
VCO
J602
DV I/O
TO DSP, MAIN IF(1/2) CN105, CN107
TO MAIN IF(1/2) CN107
TO DSP
TO MAIN IF(1/2) CN109
TO MAIN IF(1/2) CN106
TO MAIN IF(1/2) CN106, CN107
TO MAIN IF(1/2) CN112
TO MSD CPU
TO DSP, MSD CPU
TO MSD CPU, MAIN IF(1/2) CN107
TRST
TDI_F
TCMK
TMS
TDO_A
REG_2.5V
D_REG3V
REG_1.8V
A_REG3V
SBE
PB_VCO
MAIN_VCO
FS_PLL
PB_CLK
VREF_1.1
VRB_AGC
AGC_OUT
REC_DATA
REC_CLK
REC_CTL
REF_CLKO
ATFI
VRB_ATF
HID1
GND
ADDT15
ADDT14
ADDT13
ADDT12
ADDT11
ADDT10
ADDT09
ADDT08
ADDT07
ADDT06
ADDT05
ADDT04
ADDT03
ADDT02
ADDT01
ADDT00
DV_WAIT
DV_RST
DV_CS
DRWSEL
ORE
OWE
DALE
INV
INH
OUTV
OUTH
DCO3
DCO2
DCO1
DCO0
DYO3
DYO2
DYO1
DYO0
DCI3
DCI2
DCI1
DCI0
DYI3
DYI2
DYI1
DYI0
OCLK27
AODAT
AIDAT
AIMCK
AIBCK
AILRCK
FSPLLCTL
M_VCOCTL
CLK27SEL
SRV_TRK
SRV_FRP
TSR
FRP
SPA
FFREW_H
for_DRAM DIGITAL_2.5V
ANALOG_2.5V
for_I/O DIGITAL_3V
DIGITAL_1.8V
ANALOG_1.8V
ANALOG_3V
L3003
L3004
L3002
L3005
L3006
L3001
L3305
L3307
L3308
L3312
L3313
NQR0006-001X
JP3001
R3033
R3034
A/D
D/A
VCO
X3301
D3301
D3302
EC2C01C
✳ NO WEAR
y10160001a_rev0
1
2
3
4
5
A
B
C
D
E
F
G
H

## 4.7 V OUT SCHEMATIC DIAGRAM

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.*


0 1 MAIN (V OUT)
IC3702
MM1385HN
IN
OUT
CONT
GND
NB
C3722 1
C3723 10/6.3
C3724 0.01
L3701 10μ
C3721 22/6.3
TO MAIN IF(1/2) CN109
REG_4.8V
GND
TO MAIN IF(1/2) CN109, ANA IN, DSP
SR_3V
TO DSP
C_GCTL
Y_GCTL
L:PowerDown
L:Mute
C3714 10/6.3
C3712 0.01
C3710 0.1
C3711 0.1
R3709 220k
R3710 10k
C3709 0.01
C3708 100/4
R3708 10k
C3707 22/4
R3707 120
C3713 0.01
[POST FILTER]
R3733 #
C3731 #
Q3731 #
R3731 #
R3732 #
C3732 #
C3733 #
C3734 #
C3701 #
IC3701
NJM2538V
[VIDEO_AMP]
CLAMP Ref.
VCC2
VCC1
75Ω Buf.
+12dB
+18dB
-6dB
GCA 6±3dB
CLAMP
LPF
ATT
BPF
PWR SAVE
-12dB
LOGIC
Comp.
6dB
CHA
BLK
GND
TO DSP
DV_C
DV_Y
C
Y
TO CPU
IND
FRG
R3703 20k
R3704 10k
R3706 120
R3713 68
R3712 68
D3701 ※
C3716 #
TO CPU
ASPECT1
ASPECT2
AGC_RST
S_DC_IN
C3702 0.01
C3703 0.01
R3701 2.2M
C3704 10/6.3
R3702 10k
Q3701 DTC144EE
R3714 #
Q3702 #
R3715 #
R3716 4.7k
C3715 #
C_OUT
TO MAIN IF(1/2) CN109, ANA IN
V_OUT
TO MAIN IF(1/2) CN111, ANA IN
TO MAIN IF(1/2) CN109
Y_OUT
Y_IN
TO ANA IN
EXT_Y_IN

※ NO WEAR
# EXCHANGE PARTS

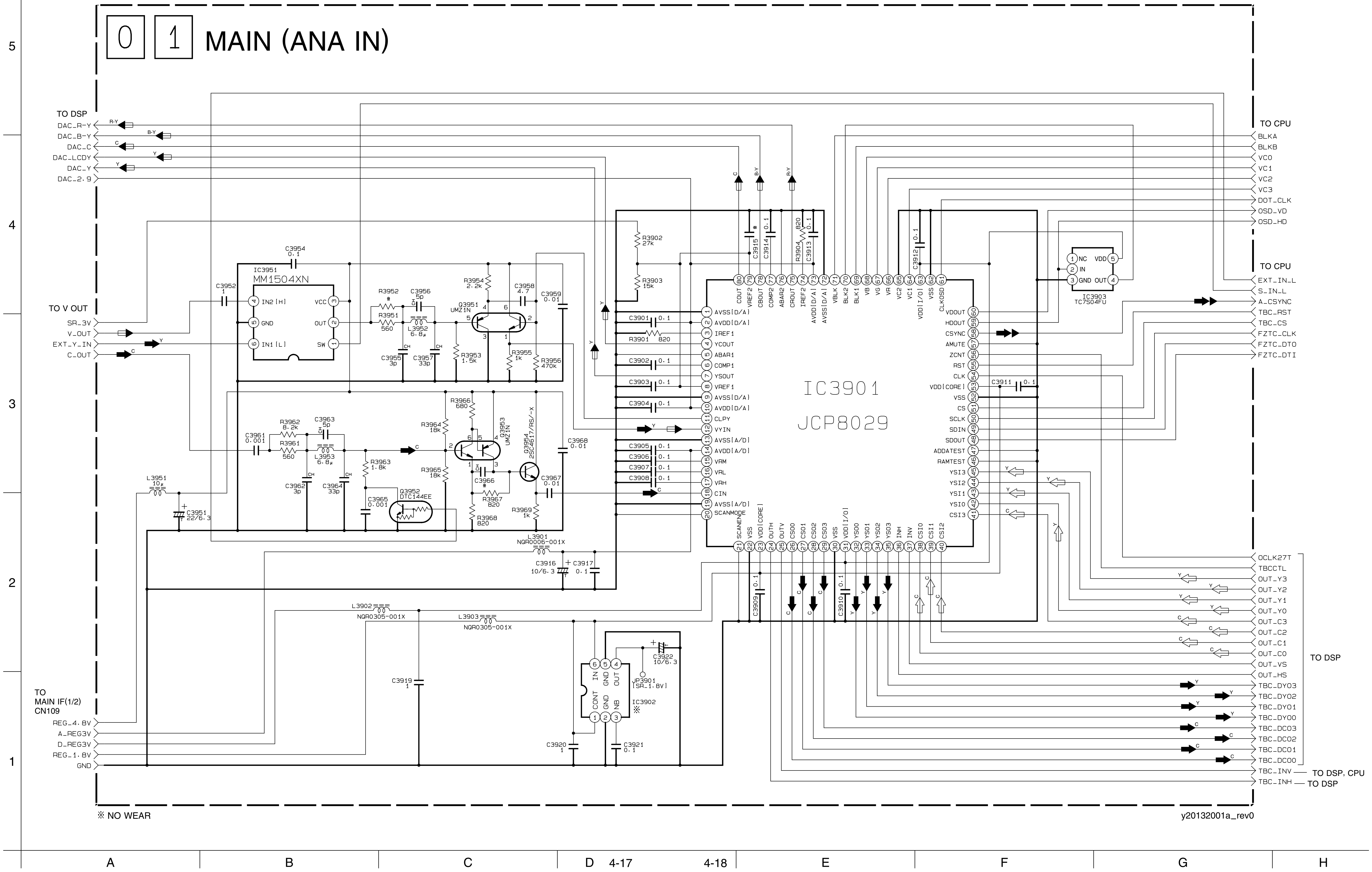
y30106001a_rev1

# EXCHANGE PARTS LIST

| | ANALOG_IN | | | ANALOG_IN | |
|---|---|---|---|---|---|
| | ○ | × | | ○ | × |
| Q3702 | 2SC4617/RS/-X | ※ | C3701 | 0.1 | ※ |
| Q3731 | ※ | 2SA1774/RS/-X | C3715 | 0.01 | ※ |
| R3714 | 100 | ※ | C3716 | 1 | ※ |
| R3715 | 4.7k | ※ | C3731 | ※ | 82p |
| R3731 | ※ | 560 | C3732 | ※ | 15p |
| R3732 | ※ | 560 | C3733 | ※ | 0.01 |
| R3733 | ※ | 2.2k | C3734 | ※ | 0.01 |

## 4.8 ANA IN SCHEMATIC DIAGRAM

*NOTES :*
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.*

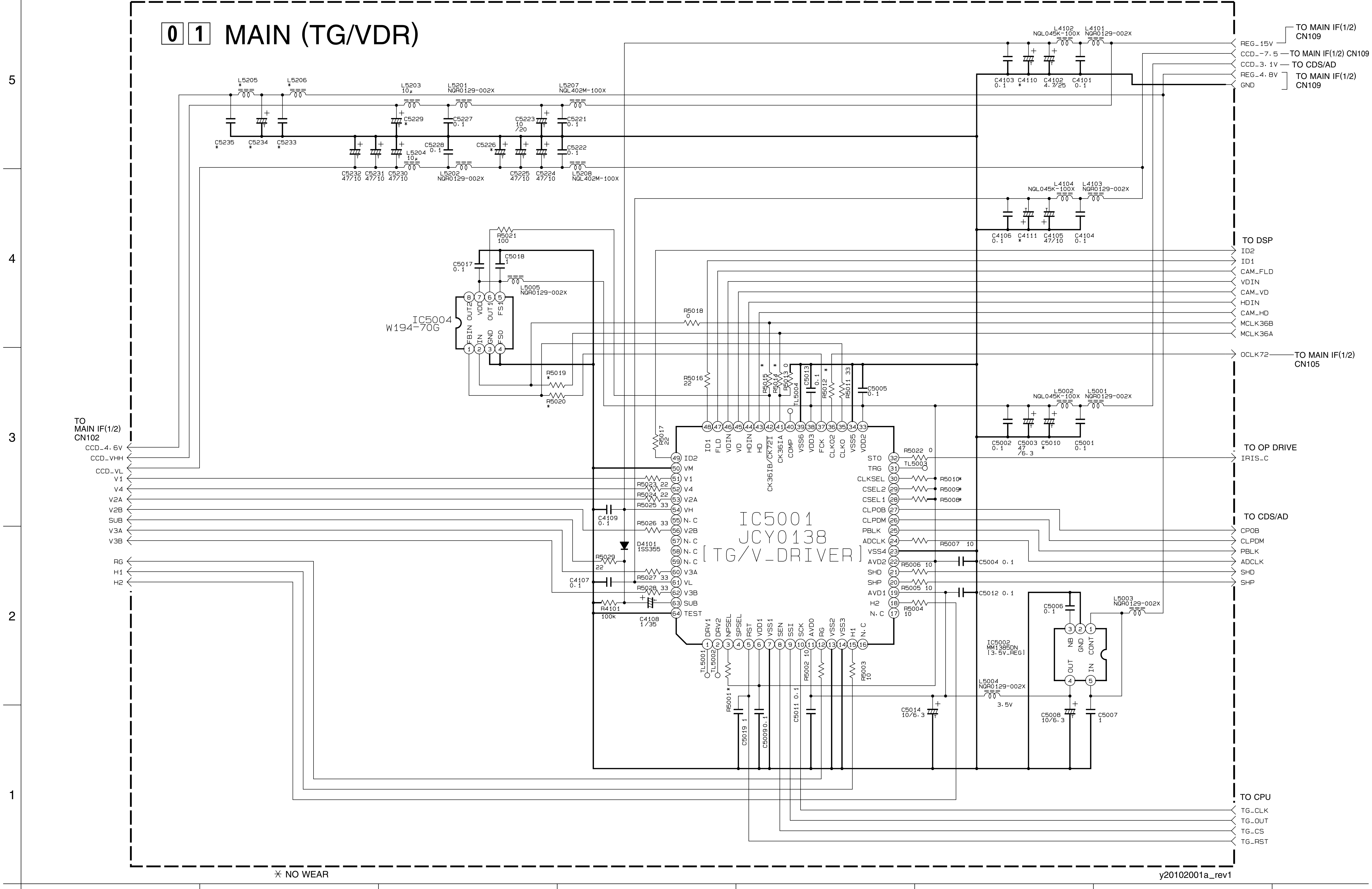


0 1 MAIN (ANA IN)
TO DSP
DAC_R-Y
DAC_B-Y
DAC_C
DAC_LCDY
DAC_Y
DAC_2.9
TO V OUT
SR_3V
V_OUT
EXT_Y_IN
C_OUT
TO MAIN IF(1/2) CN109
REG_4.8V
A_REG3V
D_REG3V
REG_1.8V
GND
IC3951 MM1504XN
IC3901 JCP8029
IC3902
IC3903 TC7S04FU
Q3951 UMZ1N
Q3952 DTC144EE
Q3953 UMZ1N
Q3954 2SC4617/RS/-X
L3901 NQR0006-001X
L3902 NQR0305-001X
L3903 NQR0305-001X
L3951 10µ
L3952 6.8µ
L3953 6.8µ
JP3901 [SR_1.8V]
TO CPU
BLKA
BLKB
VC0
VC1
VC2
VC3
DOT_CLK
OSD_VD
OSD_HD
TO CPU
EXT_IN_L
S_IN_L
A_CSYNC
TBC_RST
TBC_CS
FZTC_CLK
FZTC_DTO
FZTC_DTI
OCLK27T
TBCCTL
OUT_Y3
OUT_Y2
OUT_Y1
OUT_Y0
OUT_C3
OUT_C2
OUT_C1
OUT_C0
OUT_VS
OUT_HS
TBC_DYO3
TBC_DYO2
TBC_DYO1
TBC_DYO0
TBC_DCO3
TBC_DCO2
TBC_DCO1
TBC_DCO0
TBC_INV
TBC_INH
TO DSP
TO DSP, CPU
TO DSP
y20132001a_rev0
A B C D E F G H
1 2 3 4 5

※ NO WEAR

## 4.9 TG/VDR SCHEMATIC DIAGRAM

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.*



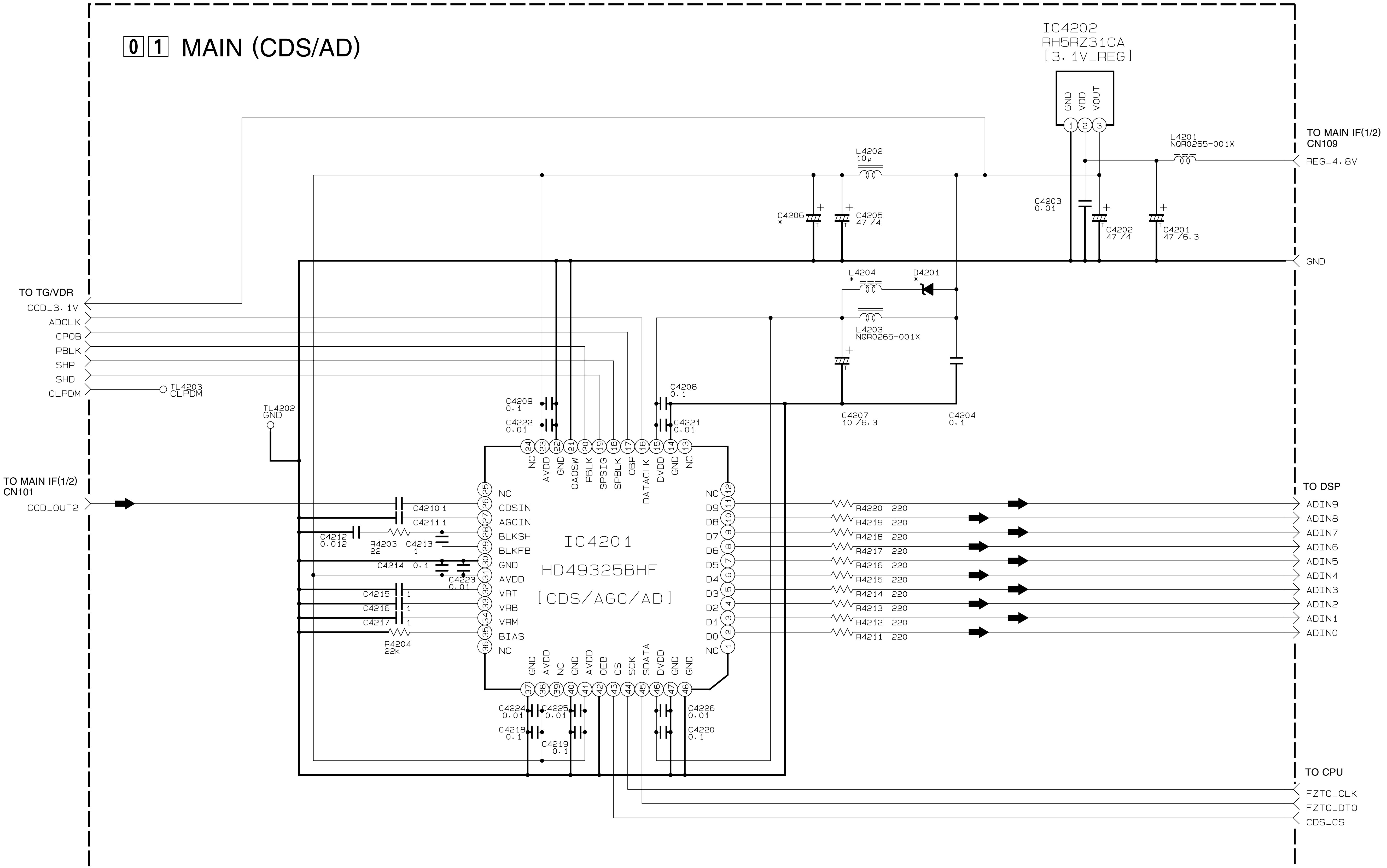
0 1 MAIN (TG/VDR)
IC5001
JCY0138
[TG/V_DRIVER]
IC5004
W194-70G
IC5002
MM1385DN
(3.5V_REG)
D4101
1SS355
TO MAIN IF(1/2) CN102
CCD_4.6V
CCD_VHH
CCD_VL
V1
V4
V2A
V2B
SUB
V3A
V3B
RG
H1
H2
REG_15V
CCD_-7.5
CCD_3.1V
REG_4.8V
GND
TO MAIN IF(1/2) CN109
TO MAIN IF(1/2) CN109
TO CDS/AD
TO MAIN IF(1/2) CN109
TO DSP
ID2
ID1
CAM_FLD
VDIN
CAM_VD
HDIN
CAM_HD
MCLK36B
MCLK36A
OCLK72
TO MAIN IF(1/2) CN105
TO OP DRIVE
IRIS_C
TO CDS/AD
CPOB
CLPDM
PBLK
ADCLK
SHD
SHP
TO CPU
TG_CLK
TG_OUT
TG_CS
TG_RST
L5205
L5206
L5203 10µ
L5201 NQR0129-002X
L5207 NQL402M-100X
L5204 10µ
L5202 NQR0129-002X
L5208 NQL402M-100X
C5235
C5234
C5233
C5232 47/10
C5231 47/10
C5230 47/10
C5229
C5228 0.1
C5227 0.1
C5226
C5225 47/10
C5224 47/10
C5223 10/20
C5221 0.1
C5222 0.1
L4102 NQL045K-100X
L4101 NQR0129-002X
C4103 0.1
C4110
C4102 4.7/25
C4101 0.1
L4104 NQL045K-100X
L4103 NQR0129-002X
C4106 0.1
C4111
C4105 47/10
C4104 0.1
L5002 NQL045K-100X
L5001 NQR0129-002X
C5002 0.1
C5003 47/6.3
C5010
C5001 0.1
R5021 100
C5017 0.1
C5018 1
L5005 NQR0129-002X
R5018 0
R5016 22
R5017 22
R5019
R5020
R5015
R5014
R5013 0
C5013 0.1
TL5004
R5012
R5011 33
C5005 0.1
R5022 0
TL5003
R5010
R5009
R5008
R5007 10
C5004 0.1
R5006 10
R5005 10
C5012 0.1
R5004 10
R5023 22
R5024 22
R5025 33
R5026 33
R5029 22
R5027 33
R5028 33
C4109 0.1
C4107 0.1
R4101 100k
C4108 1/35
TL5001
TL5002
R5001
C5019 1
C5009 0.1
C5011 0.1
R5002 10
R5003 10
C5014 10/6.3
L5004 NQR0129-002X
3.5V
C5008 10/6.3
C5007 1
C5006 0.1
L5003 NQR0129-002X
NB GND CONT OUT IN
1 2 3 4 5
A B C D E F G H

✳ NO WEAR

y20102001a_rev1

## 4.10 CDS/AD SCHEMATIC DIAGRAM

NOTES :
- For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".
- The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.



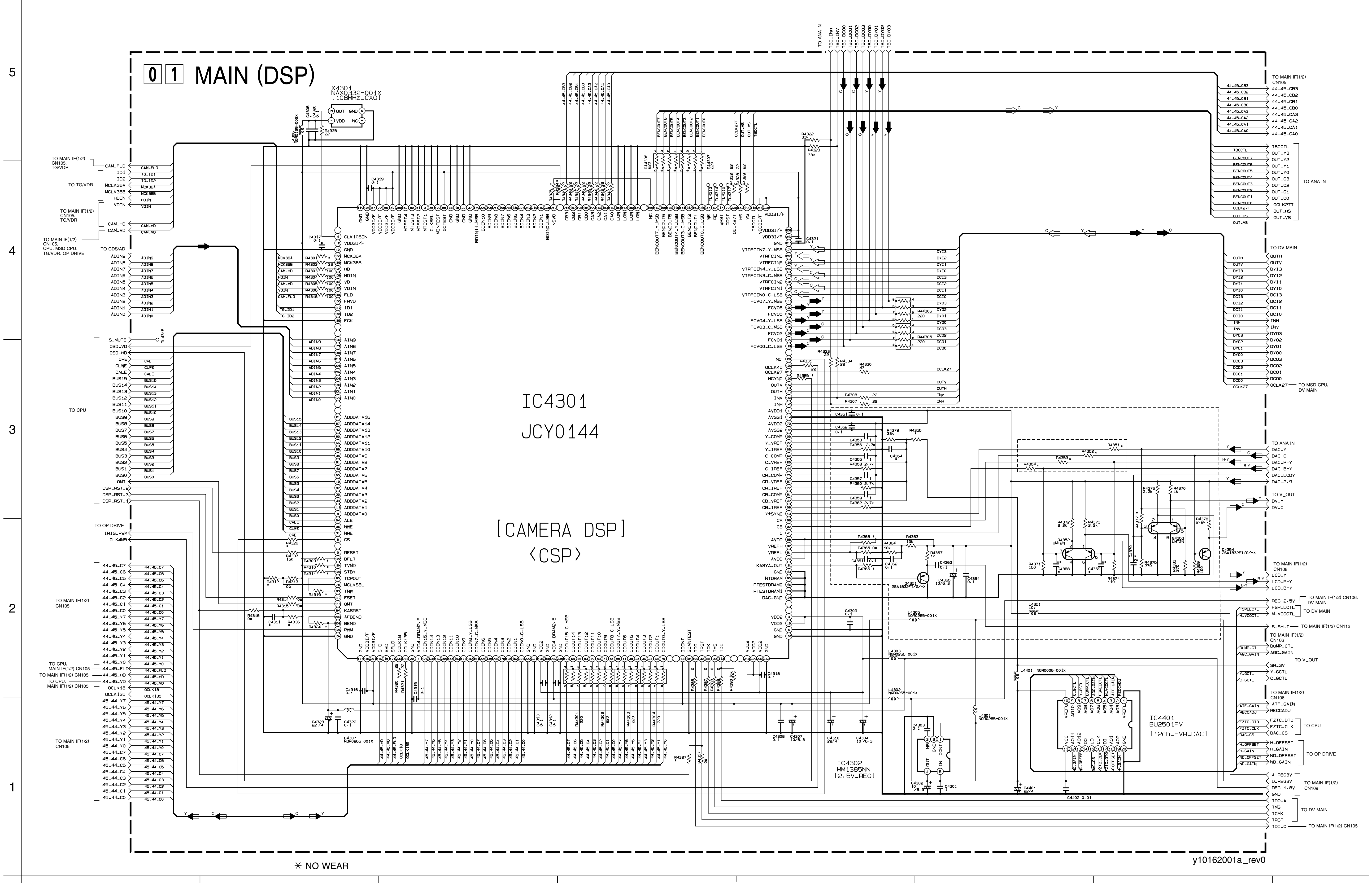
01 MAIN (CDS/AD)
IC4202
RH5RZ31CA
[3.1V_REG]
GND
VDD
VOUT
TO MAIN IF(1/2)
CN109
REG_4.8V
GND
L4201
NQR0265-001X
L4202
10μ
C4206
*
C4205
47/4
C4203
0.01
C4202
47/4
C4201
47/6.3
L4204
*
D4201
*
L4203
NQR0265-001X
C4207
10/6.3
C4204
0.1
C4208
0.1
C4221
0.01
C4209
0.1
C4222
0.01
TO TG/VDR
CCD_3.1V
ADCLK
CPOB
PBLK
SHP
SHD
CLPDM
TL4203
CLPDM
TL4202
GND
TO MAIN IF(1/2)
CN101
CCD_OUT2
NC
AVDD
GND
OAOSW
PBLK
SPSIG
SPBLK
OBP
DATACLK
DVDD
GND
NC
NC
CDSIN
AGCIN
BLKSH
BLKFB
GND
AVDD
VRT
VRB
VRM
BIAS
NC
C4210 1
C4211 1
C4212
0.012
R4203
22
C4213
1
C4214 0.1
C4223
0.01
C4215 1
C4216 1
C4217 1
R4204
22k
IC4201
HD49325BHF
[CDS/AGC/AD]
NC
D9
D8
D7
D6
D5
D4
D3
D2
D1
D0
NC
GND
AVDD
NC
GND
AVDD
OEB
CS
SCK
SDATA
DVDD
GND
GND
C4224
0.01
C4225
0.01
C4218
0.1
C4219
0.1
C4226
0.01
C4220
0.1
R4220 220
R4219 220
R4218 220
R4217 220
R4216 220
R4215 220
R4214 220
R4213 220
R4212 220
R4211 220
TO DSP
ADIN9
ADIN8
ADIN7
ADIN6
ADIN5
ADIN4
ADIN3
ADIN2
ADIN1
ADIN0
TO CPU
FZTC_CLK
FZTC_DTO
CDS_CS

y20104001a_rev1

* NO WEAR

## 4.11 DSP SCHEMATIC DIAGRAM

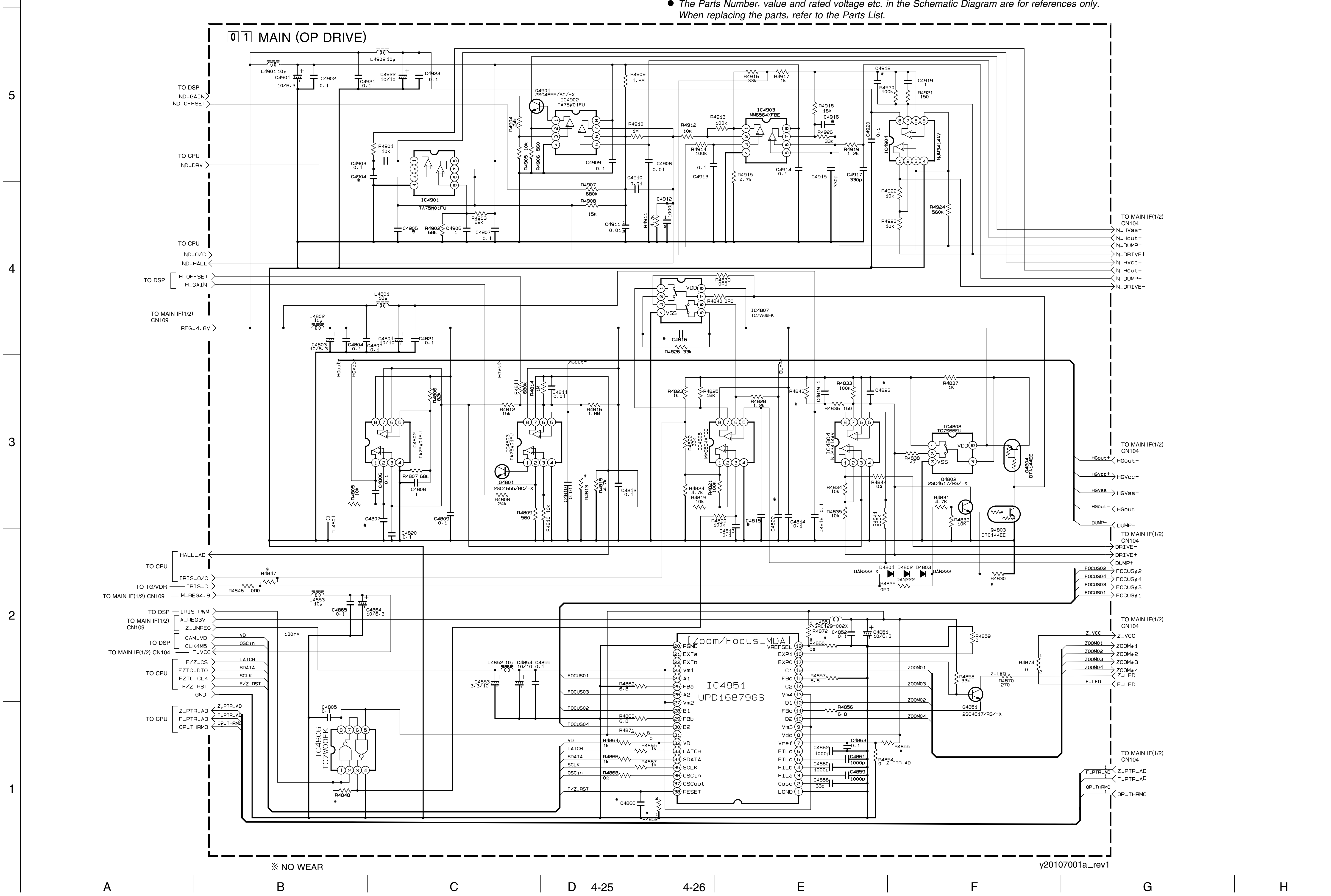
*NOTES :*
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.*



01 MAIN (DSP)
IC4301
JCY0144
[CAMERA DSP]
<CSP>
X4301
NAX0332-001X
[108MHz_CXO]
IC4302
MM1385NN
[2.5V_REG]
IC4401
BU2501FV
[12ch_EVR_DAC]
TO MAIN IF(1/2) CN105, TG/VDR
TO TG/VDR
TO MAIN IF(1/2) CN105, CPU, MSD CPU, TG/VDR, OP DRIVE
TO CDS/AD
TO CPU
TO OP DRIVE
TO MAIN IF(1/2) CN105
TO ANA IN
TO DV MAIN
TO MSD CPU, DV MAIN
TO V_OUT
TO MAIN IF(1/2) CN108
TO MAIN IF(1/2) CN106, DV MAIN
TO MAIN IF(1/2) CN112
TO MAIN IF(1/2) CN106
TO OP DRIVE
TO MAIN IF(1/2) CN109
TO MAIN IF(1/2) CN105
※ NO WEAR
y10162001a_rev0
1
2
3
4
5
A
B
C
D
E
F
G
H

## 4.12 OP DRIVE SCHEMATIC DIAGRAM

*NOTES :* ● *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
● *The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.*



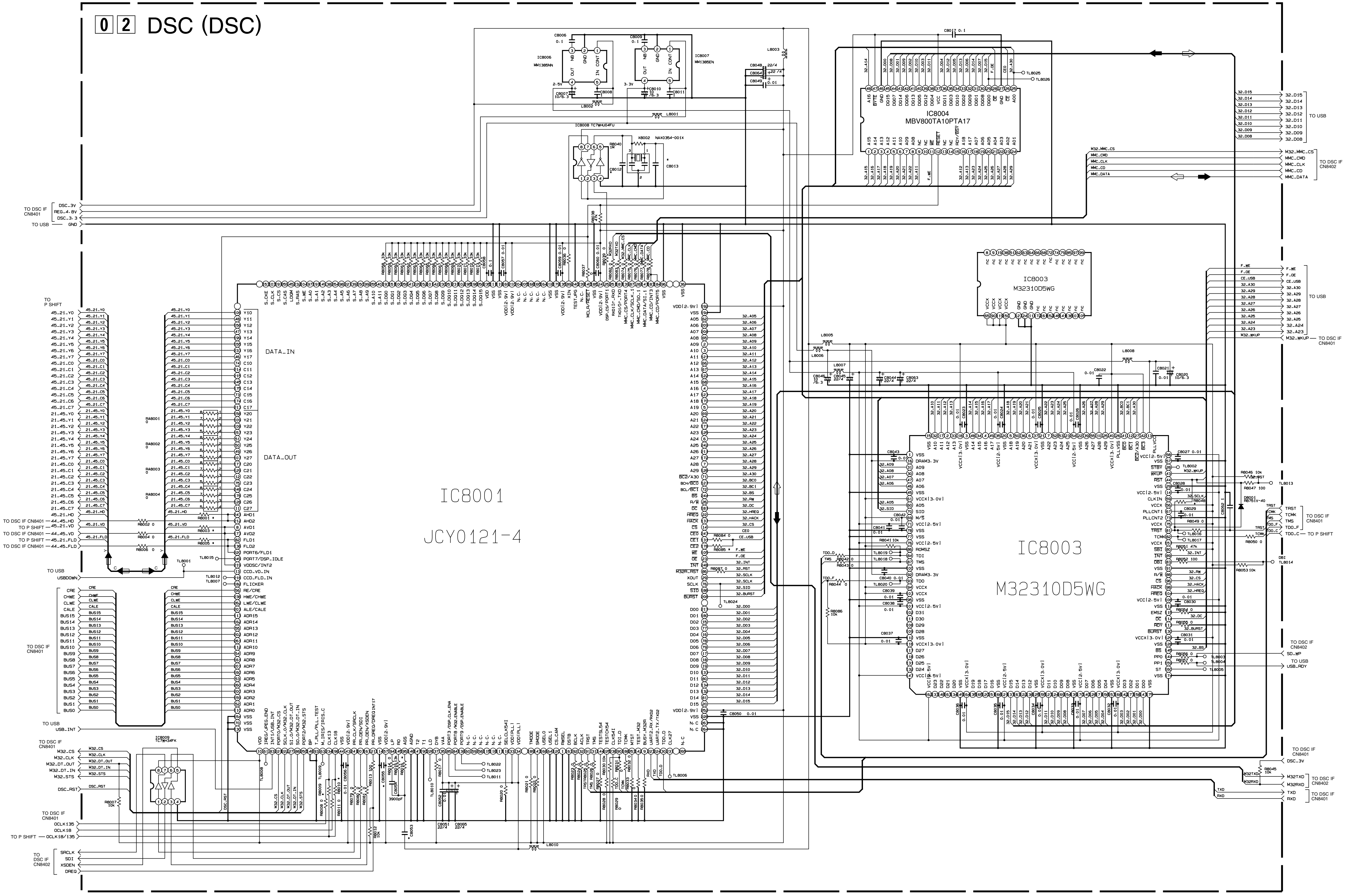
01 MAIN (OP DRIVE)
TO DSP
ND_GAIN
ND_OFFSET
TO CPU
ND_DRV
TO CPU
ND_O/C
ND_HALL
TO DSP
H_OFFSET
H_GAIN
TO MAIN IF(1/2) CN109
REG_4.8V
TO CPU
HALL_AD
IRIS_O/C
TO TG/VDR
IRIS_C
TO MAIN IF(1/2) CN109
M_REG4.8
TO DSP
IRIS_PWM
TO MAIN IF(1/2) CN109
A_REG3V
Z_UNREG
TO DSP
CAM_VD
CLK4M5
TO MAIN IF(1/2) CN104
F_VCC
TO CPU
F/Z_CS
FZTC_DTO
FZTC_CLK
F/Z_RST
GND
TO CPU
Z_PTR_AD
F_PTR_AD
OP_THRMO
IC4901 TA75W01FU
IC4902 TA75W01FU
IC4903 MM6564XFBE
IC4904 NJM3414AV
Q4901 2SC4655/BC/-X
IC4802 TA75W01FU
IC4803 TA75W01FU
IC4805 MM6564XFBE
IC4804 NJM3414AV
IC4807 TC7W66FK
IC4808 TC7S66FU
Q4801 2SC4655/BC/-X
Q4802 2SC4617/RS/-X
Q4803 DTC144EE
Q4804 DTA144EE
D4801 D4802 D4803 DAN222
IC4806 TC7W00FK
IC4851 UPD16879GS
[Zoom/Focus_MDA]
Q4851 2SC4617/RS/-X
L4851 NQR0129-002X
130mA
TO MAIN IF(1/2) CN104
N_HVss-
N_Hout-
N_DUMP+
N_DRIVE+
N_HVcc+
N_Hout+
N_DUMP-
N_DRIVE-
TO MAIN IF(1/2) CN104
HGout+
HGVcc+
HGVss-
HGout-
DUMP-
TO MAIN IF(1/2) CN104
DRIVE-
DRIVE+
DUMP+
FOCUSφ2
FOCUSφ4
FOCUSφ3
FOCUSφ1
TO MAIN IF(1/2) CN104
Z_VCC
ZOOMφ1
ZOOMφ2
ZOOMφ3
ZOOMφ4
Z_LED
F_LED
TO MAIN IF(1/2) CN104
Z_PTR_AD
F_PTR_AD
OP_THRMO
5
4
3
2
1
A
B
C
D
E
F
G
H

※ NO WEAR

y20107001a_rev1

## 4.13 DSC SCHEMATIC DIAGRAM

*NOTES :*
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.*



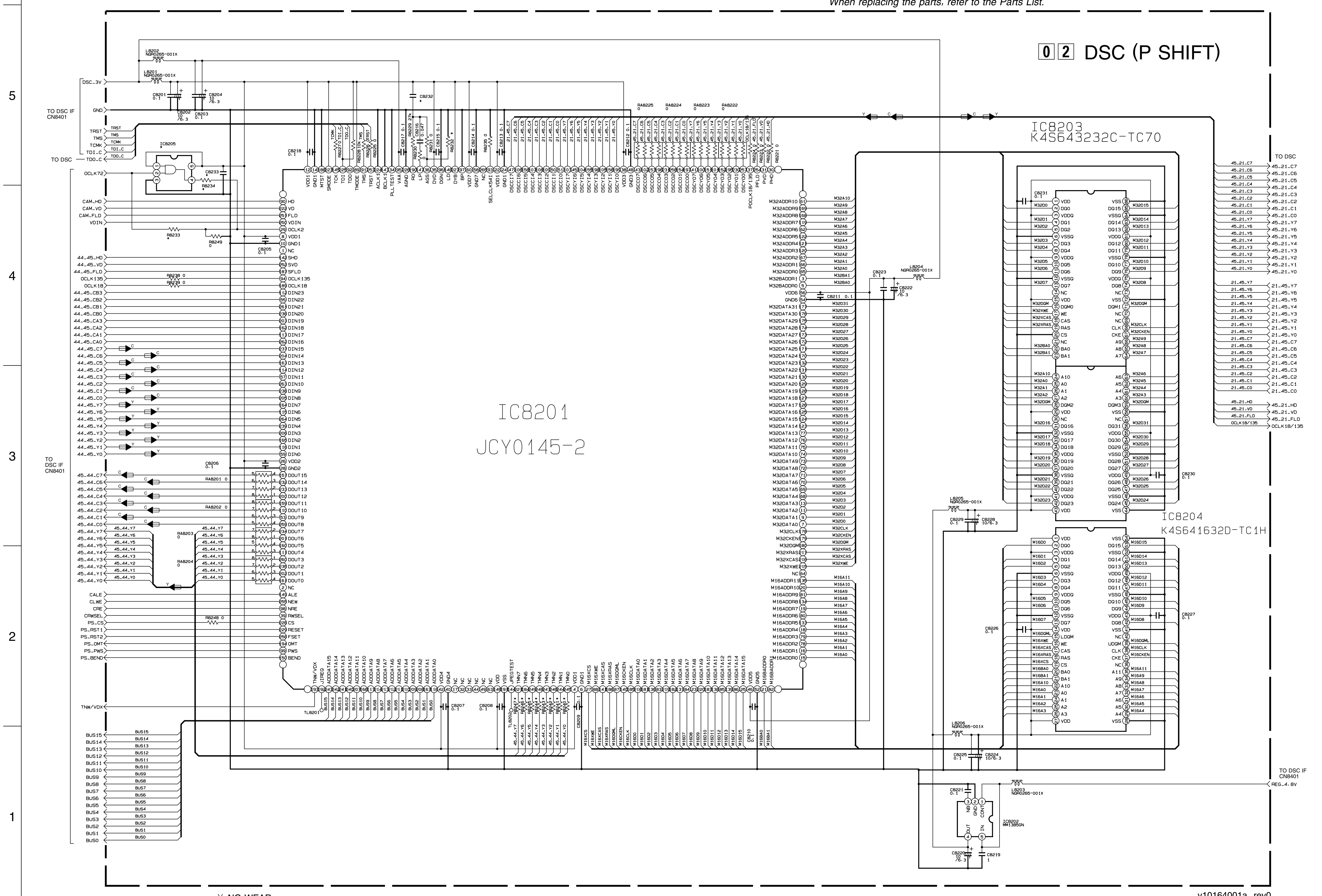
0 2 DSC (DSC)
IC8001
JCY0121-4
IC8003
M32310D5WG
IC8004
MBV800TA10PTA17
IC8006
MM1385NN
IC8007
MM1385EN
IC8008 TC7WHU04FU
IC8009 TC7WH34FK
X8002 NAX0354-001X
DATA_IN
DATA_OUT
TO DSC IF CN8401
TO DSC IF CN8402
TO USB
TO P SHIFT
5
4
3
2
1
A
B
C
D
E
F
G
H

✳ NO WEAR

y10163001a_rev0

## 4.14 P SHIFT SCHEMATIC DIAGRAM

NOTES :
- For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".
- The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.



0 2 DSC (P SHIFT)
IC8201
JCY0145-2
IC8203
K4S643232C-TC70
IC8204
K4S641632D-TC1H
IC8202
MM1385GN
IC8205
TO DSC IF
CN8401
TO DSC
DSC_3V
GND
TRST
TMS
TCMK
TDI_C
TDO_C
OCLK72
CAM_HD
CAM_VD
CAM_FLD
VDIN
REG_4.8V
TNW/VDX
BUS15
BUS0
CALE
CLWE
CRE
CRWSEL
PS_CS
PS_RST1
PS_RST2
PS_OMT
PS_PWS
PS_BEND
LB8201
LB8202
LB8203
LB8204
LB8205
LB8206
5
4
3
2
1

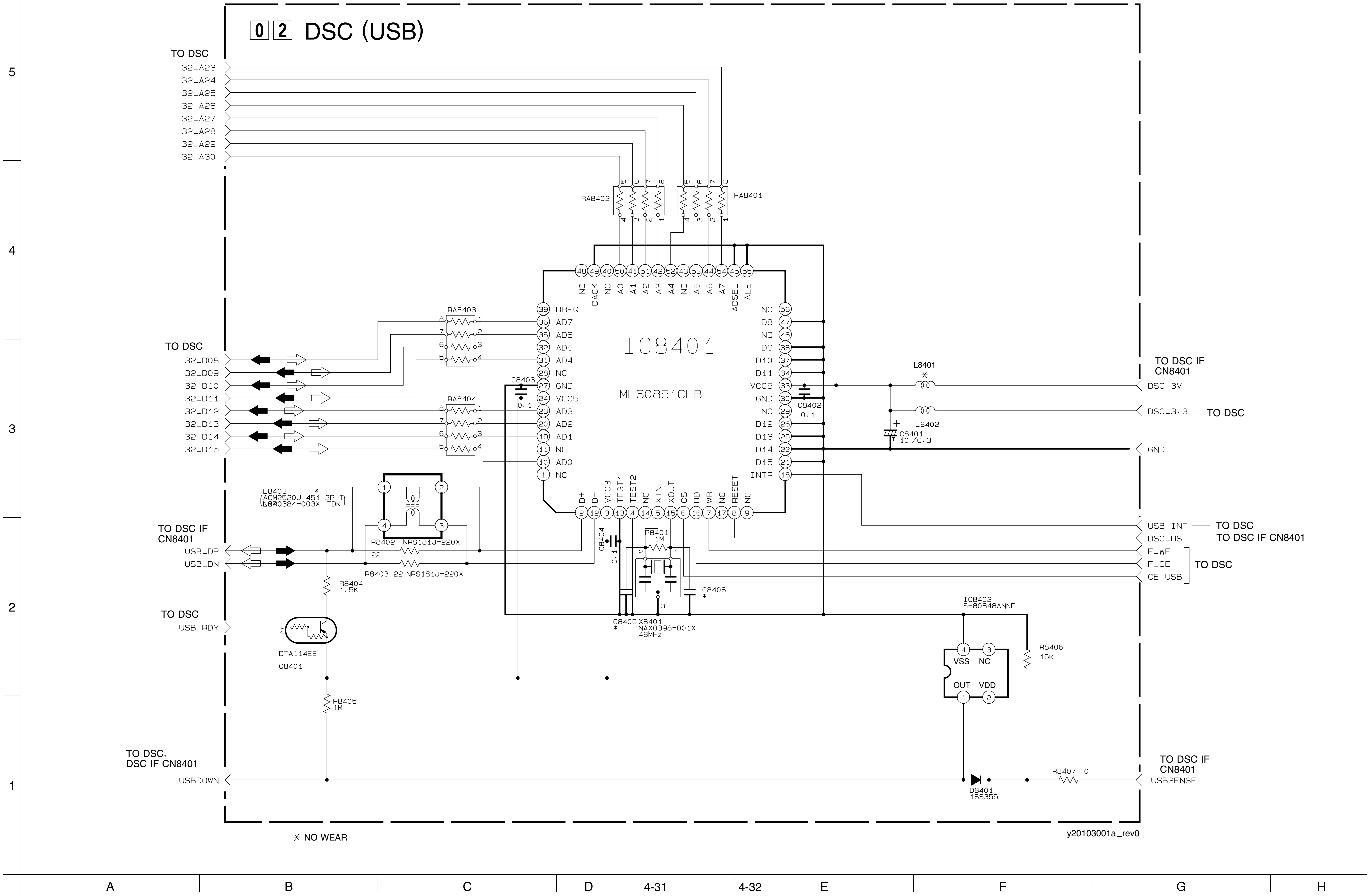
⚹ NO WEAR

y10164001a_rev0

| A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|

## 4.15 USB SCHEMATIC DIAGRAM

*NOTES :*
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.*

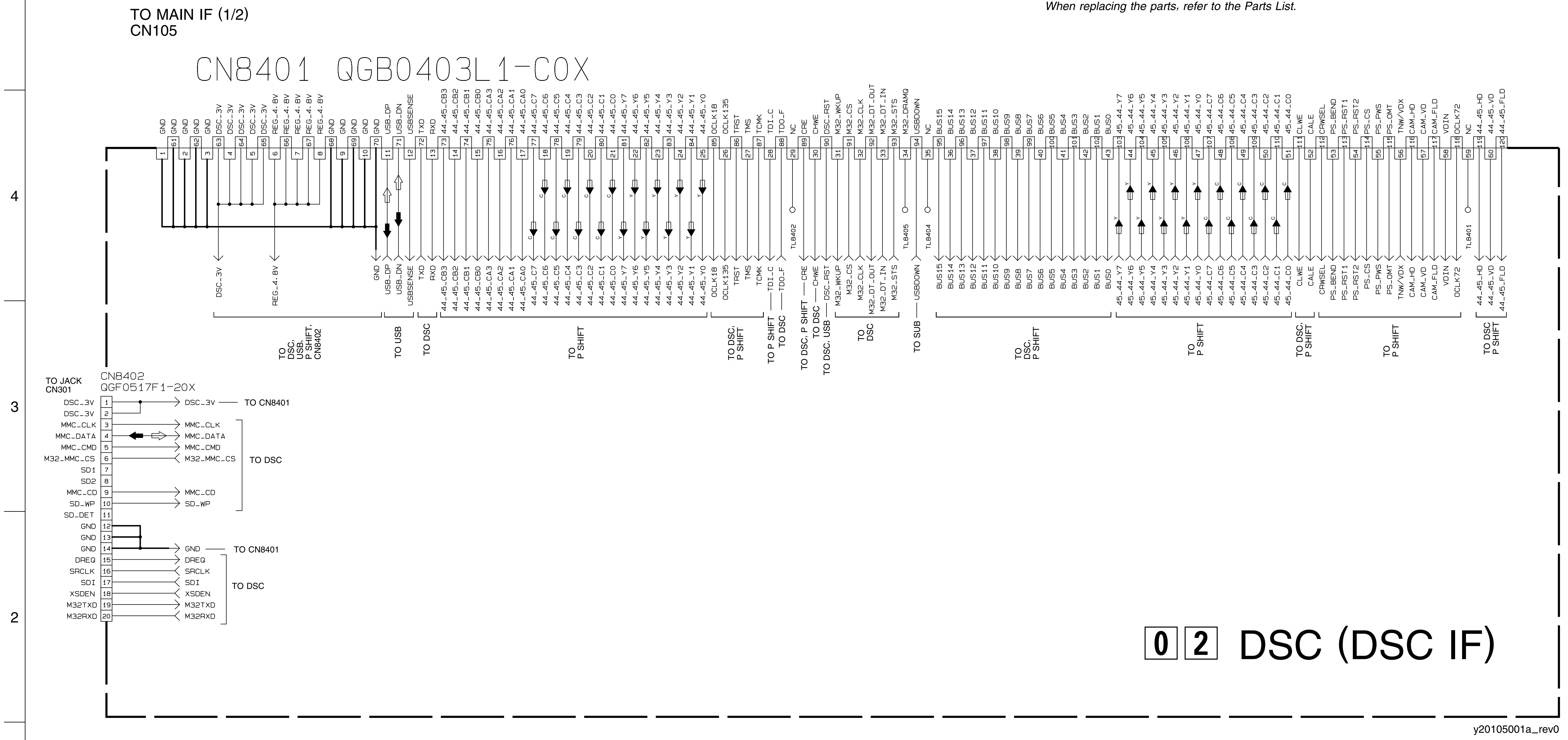

02 DSC (USB)
TO DSC
32_A23
32_A24
32_A25
32_A26
32_A27
32_A28
32_A29
32_A30
RA8402
RA8401
RA8403
RA8404
TO DSC
32_D08
32_D09
32_D10
32_D11
32_D12
32_D13
32_D14
32_D15
C8403
0.1
IC8401
ML60851CLB
NC
DACK
A0
A1
A2
A3
A4
A5
A6
A7
ADSEL
ALE
DREQ
AD7
AD6
AD5
AD4
GND
VCC5
AD3
AD2
AD1
AD0
D8
D9
D10
D11
D12
D13
D14
D15
INTR
D+
D-
VCC3
TEST1
TEST2
XIN
XOUT
CS
RD
WR
RESET
C8402
0.1
L8401
L8402
C8401
10 /6.3
TO DSC IF
CN8401
DSC_3V
DSC_3.3
TO DSC
GND
L8403
ACM2520U-451-2P-T
QQR0384-003X TDK
TO DSC IF
CN8401
USB_DP
USB_DN
R8402 NRS181J-220X
22
R8403 22 NRS181J-220X
R8404
1.5K
C8404
0.1
R8401
1M
C8406
C8405
X8401
NAX0398-001X
48MHz
TO DSC
USB_RDY
DTA114EE
Q8401
R8405
1M
USB_INT
TO DSC
DSC_RST
TO DSC IF CN8401
F_WE
F_OE
CE_USB
TO DSC
IC8402
S-80848ANNP
VSS
NC
OUT
VDD
R8406
15k
TO DSC,
DSC IF CN8401
USBDOWN
D8401
1SS355
R8407 0
TO DSC IF
CN8401
USBSENSE
1
2
3
4
5
A
B
C
D
E
F
G
H

✳ NO WEAR

y20103001a_rev0

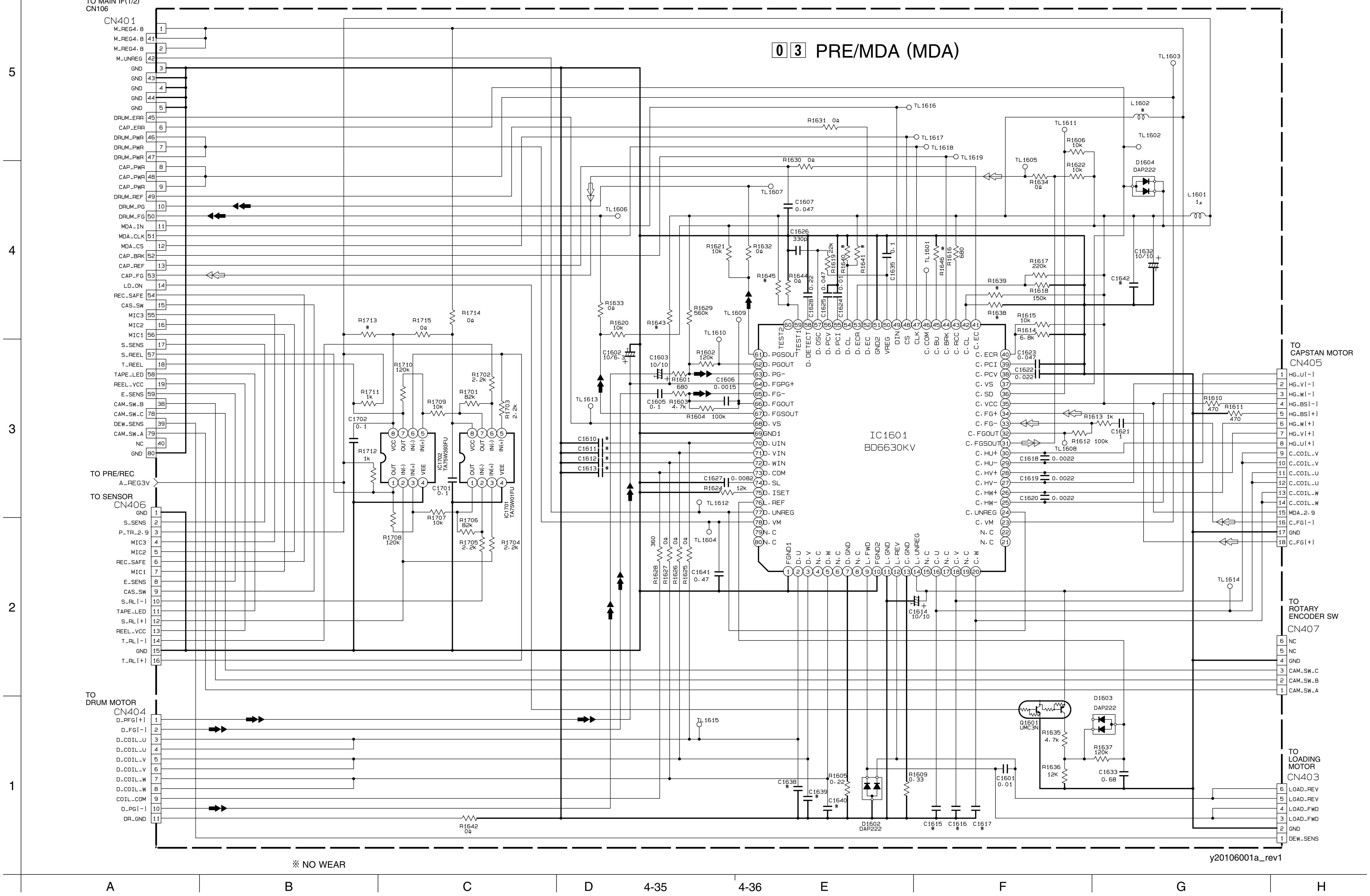
## 4.16 DSC IF SCHEMATIC DIAGRAM

*NOTES :*
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.*


TO MAIN IF (1/2)
CN105
CN8401 QGB0403L1-C0X
TO DSC, USB, P SHIFT, CN8402
TO USB
TO DSC
TO P SHIFT
TO DSC, P SHIFT
TO P SHIFT
TO DSC
TO DSC, P SHIFT
TO DSC
TO DSC, USB
TO DSC
TO SUB
TO DSC, P SHIFT
TO P SHIFT
TO DSC, P SHIFT
TO P SHIFT
TO DSC P SHIFT
TL8402
TL8405
TL8404
TL8401
TO JACK
CN301
CN8402
QGF0517F1-20X
DSC_3V 1
DSC_3V 2
MMC_CLK 3
MMC_DATA 4
MMC_CMD 5
M32_MMC_CS 6
SD1 7
SD2 8
MMC_CD 9
SD_WP 10
SD_DET 11
GND 12
GND 13
GND 14
DREQ 15
SRCLK 16
SDI 17
XSDEN 18
M32TXD 19
M32RXD 20
TO CN8401
TO DSC
TO CN8401
TO DSC
0 2 DSC (DSC IF)
y20105001a_rev0
1
2
3
4
5

## 4.17 MDA SCHEMATIC DIAGRAM

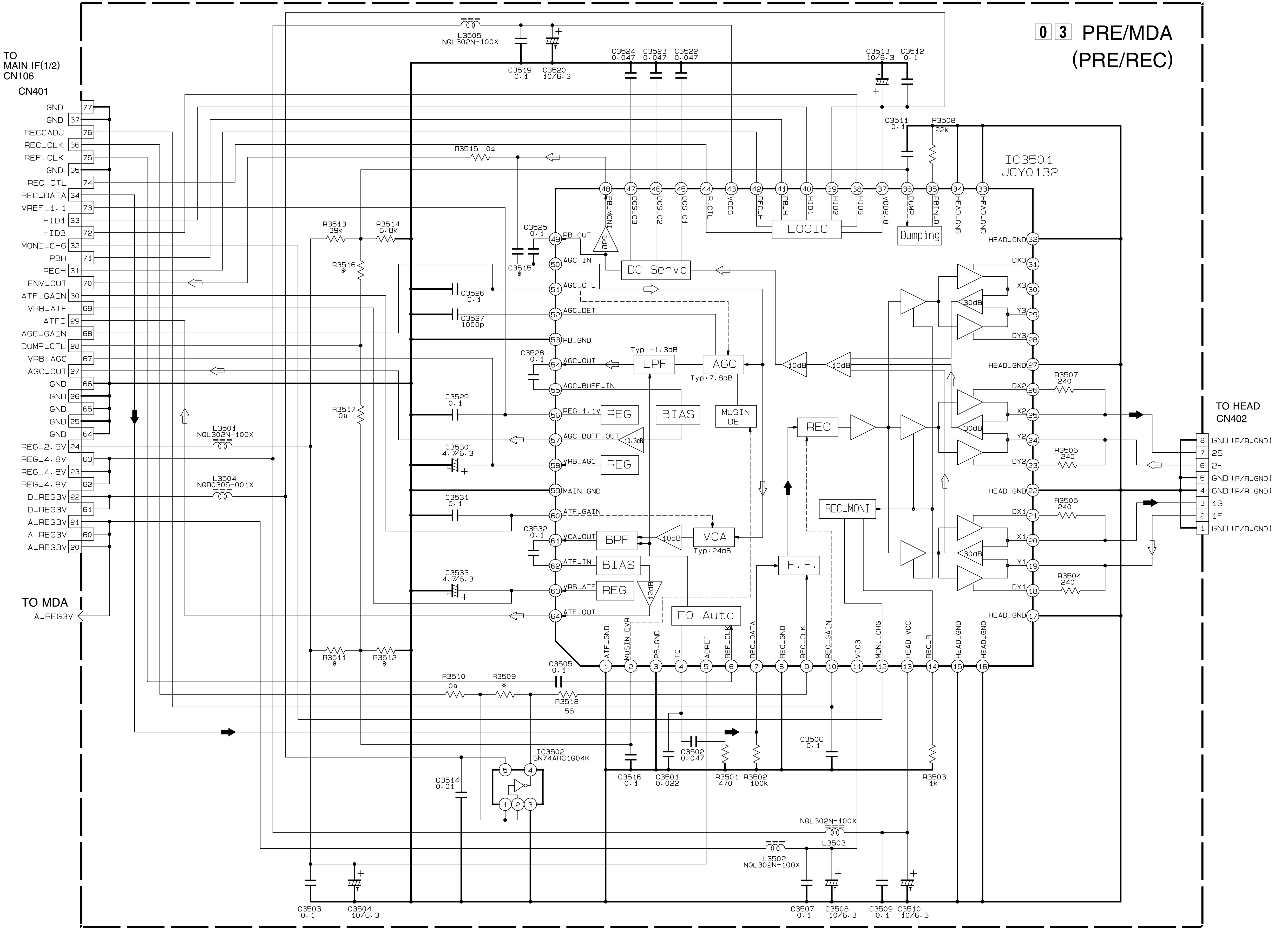
NOTES :
- For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".
- The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.



03 PRE/MDA (MDA)
TO MAIN IF(1/2) CN106
CN401
M_REG4.8
M_UNREG
GND
DRUM_ERR
CAP_ERR
DRUM_PWR
CAP_PWR
DRUM_REF
DRUM_PG
DRUM_FG
MDA_IN
MDA_CLK
MDA_CS
CAP_BRK
CAP_REF
CAP_FG
LD_ON
REC_SAFE
CAS_SW
MIC3
MIC2
MIC1
S_SENS
S_REEL
T_REEL
TAPE_LED
REEL_VCC
E_SENS
CAM_SW_B
CAM_SW_C
DEW_SENS
CAM_SW_A
NC
TO PRE/REC
A_REG3V
TO SENSOR
CN406
P_TR_2.9
S_RL[-]
S_RL[+]
T_RL[-]
T_RL[+]
TO DRUM MOTOR
CN404
D_PFG[+]
D_FG[-]
D_COIL_U
D_COIL_V
D_COIL_W
COIL_COM
D_PG[-]
DR_GND
IC1601
BD6630KV
TEST2
TEST1
D.DETECT
D.OSC
D.PCV
D.PCI
D.CL
D.ECR
D.EC
GND2
VREG
DIN
CS
CLK
C.COM
C.BU
C.BRK
C.RCC
C.CL
C.EC
C.ECR
C.PCI
C.PCV
C.VS
C.SD
C.VCC
C.FG+
C.FG-
C.FGOUT
C.FGSOUT
C.HU+
C.HU-
C.HV+
C.HV-
C.HW+
C.HW-
C.UNREG
C.VM
N.C
D.PGSOUT
D.PGOUT
D.PG-
D.FGPG+
D.FG-
D.FGOUT
D.FGSOUT
D.VS
GND1
D.UIN
D.VIN
D.WIN
D.COM
D.SL
D.ISET
L.REF
D.UNREG
D.VM
FGND1
D.U
D.V
D.W
D.GND
L.FWD
FGND2
L.GND
L.REV
C.GND
L.UNREG
C.U
C.V
C.W
IC1702 TA75W393FU
IC1701 TA75W01FU
VCC
OUT
IN(-)
IN(+)
VEE
R1713 ※
R1715 0Ω
R1714 0Ω
R1710 120k
R1711 1k
R1712 1k
R1709 10k
R1701 82k
R1702 2.2k
R1703 2.2k
R1706 82k
R1707 10k
R1708 120k
R1705 2.2k
R1704 2.2k
C1702 0.1
C1701 0.1
TL1603
TL1616
TL1617
TL1618
TL1619
TL1611
TL1605
TL1602
TL1607
TL1606
TL1609
TL1610
TL1613
TL1612
TL1604
TL1601
TL1608
TL1614
TL1615
L1602 ※
L1601 1μ
D1604 DAP222
D1603 DAP222
D1602 DAP222
Q1601 UMC3N
R1631 0Ω
R1630 0Ω
R1606 10k
R1622 10k
R1634 0Ω
R1621 10k
R1632 0Ω
R1645 ※
R1644 0Ω
R1619 22k
R1640 ※
R1641 ※
R1646 ※
R1616 680
R1617 220k
R1618 150k
R1639 ※
R1638 ※
R1615 10k
R1614 6.8k
R1633 0Ω
R1620 10k
R1643 ※
R1629 560k
R1602 120k
R1601 680
R1603 4.7k
R1604 100k
R1624 12k
R1610 470
R1611 470
R1613 1k
R1612 100k
R1628 360
R1627 0Ω
R1626 0Ω
R1625 0Ω
R1635 4.7k
R1636 12k
R1637 120k
R1605 0.22
R1609 0.33
R1642 0Ω
C1607 0.047
C1626 330p
C1628 0.22
C1625 0.047
C1624 0.01
C1635 0.1
C1632 10/10
C1642 ※
C1623 0.047
C1622 0.022
C1621 1
C1618 0.0022
C1619 0.0022
C1620 0.0022
C1602 10/6.3
C1603 10/10
C1606 0.0015
C1605 0.1
C1610 ※
C1611 ※
C1612 ※
C1613 ※
C1627 0.0082
C1641 0.47
C1614 10/10
C1633 0.68
C1601 0.01
C1638 ※
C1639 ※
C1640 ※
C1615 ※
C1616 ※
C1617 ※
TO CAPSTAN MOTOR
CN405
HG_U[-]
HG_V[-]
HG_W[-]
HG_BS[-]
HG_BS[+]
HG_W[+]
HG_V[+]
HG_U[+]
C_COIL_V
C_COIL_U
C_COIL_W
MDA_2.9
C_FG[-]
GND
C_FG[+]
TO ROTARY ENCODER SW
CN407
NC
GND
CAM_SW_C
CAM_SW_B
CAM_SW_A
TO LOADING MOTOR
CN403
LOAD_REV
LOAD_FWD
GND
DEW_SENS
※ NO WEAR
y20106001a_rev1
1
2
3
4
5
A
B
C
D
E
F
G
H

## 4.18 PRE/REC SCHEMATIC DIAGRAM

*NOTES :*
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.*



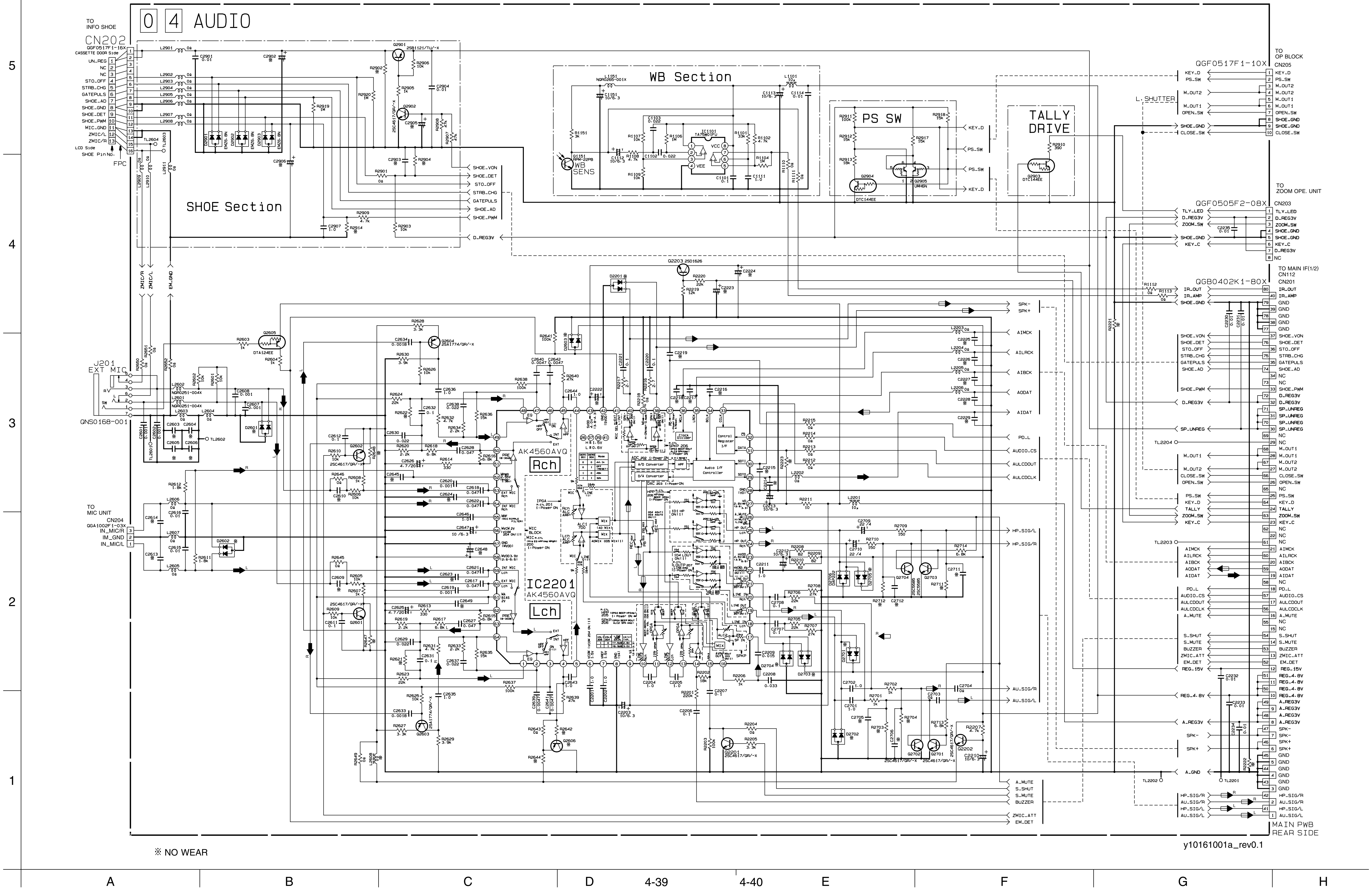
03 PRE/MDA
(PRE/REC)
TO MAIN IF(1/2) CN106
CN401
GND 77
GND 37
RECCADJ 76
REC_CLK 36
REF_CLK 75
GND 35
REC_CTL 74
REC_DATA 34
VREF_1.1 73
HID1 33
HID3 72
MONI_CHG 32
PBH 71
RECH 31
ENV_OUT 70
ATF_GAIN 30
VRB_ATF 69
ATFI 29
AGC_GAIN 68
DUMP_CTL 28
VRB_AGC 67
AGC_OUT 27
GND 66
GND 26
GND 65
GND 25
GND 64
REG_2.5V 24
REG_4.8V 63
REG_4.8V 23
REG_4.8V 62
D_REG3V 22
D_REG3V 61
A_REG3V 21
A_REG3V 60
A_REG3V 20
TO MDA
A_REG3V
L3505 NQL302N-100X
C3519 0.1
C3520 10/6.3
C3524 0.047
C3523 0.047
C3522 0.047
C3513 10/6.3
C3512 0.1
C3511 0.1
R3508 22k
R3515 0Ω
IC3501 JCY0132
R3513 39k
R3514 6.8k
R3516 ※
C3525 0.1
C3515 ※
C3526 0.1
C3527 1000p
C3528 0.1
C3529 0.1
R3517 0Ω
L3501 NQL302N-100X
C3530 4.7/6.3
L3504 NQR0305-001X
C3531 0.1
C3532 0.1
C3533 4.7/6.3
R3511 ※
R3512 ※
R3510 0Ω
R3509 ※
C3505 0.1
R3518 56
IC3502 SN74AHC1G04K
C3514 0.01
C3516 0.1
C3501 0.022
C3502 0.047
R3501 470
R3502 100k
C3506 0.1
R3503 1k
NQL302N-100X L3503
L3502 NQL302N-100X
C3503 0.1
C3504 10/6.3
C3507 0.1
C3508 10/6.3
C3509 0.1
C3510 10/6.3
48 PB_MONI
47 DCS_C3
46 DCS_C2
45 DCS_C1
44 R_CTL
43 VCC5
42 REC_H
41 PB_H
40 HID1
39 HID2
38 HID3
37 VDD2.8
36 DUMP
35 PBIN_R
34 HEAD_GND
33 HEAD_GND
49 PB_OUT
50 AGC_IN
51 AGC_CTL
52 AGC_DET
53 PB_GND
54 AGC_OUT
55 AGC_BUFF_IN
56 REG_1.1V
57 AGC_BUFF_OUT
58 VRB_AGC
59 MAIN_GND
60 ATF_GAIN
61 VCA_OUT
62 ATF_IN
63 VRB_ATF
64 ATF_OUT
1 ATF_GND
2 MUSIN_EVR
3 PB_GND
4 TC
5 ADREF
6 REF_CLK
7 REC_DATA
8 REC_GND
9 REC_CLK
10 REC_GAIN
11 VCC3
12 MONI_CHG
13 HEAD_VCC
14 REC_R
15 HEAD_GND
16 HEAD_GND
HEAD_GND 32
DX3 31
X3 30
Y3 29
DY3 28
HEAD_GND 27
DX2 26
X2 25
Y2 24
DY2 23
HEAD_GND 22
DX1 21
X1 20
Y1 19
DY1 18
HEAD_GND 17
6dB
LOGIC
Dumping
DC Servo
Typ:-1.3dB
LPF
AGC
Typ:7.8dB
10dB
10dB
30dB
REG
BIAS
MUSIN DET
REC
10.3dB
REG
VCA
Typ:24dB
BPF
10dB
BIAS
REG
12dB
F.F.
REC_MONI
FO Auto
30dB
30dB
R3507 240
R3506 240
R3505 240
R3504 240
TO HEAD
CN402
8 GND (P/R_GND)
7 2S
6 2F
5 GND (P/R_GND)
4 GND (P/R_GND)
3 1S
2 1F
1 GND (P/R_GND)

※ NO WEAR

y20100001a_rev0

## 4.19 AUDIO SCHEMATIC DIAGRAM

NOTES :
- For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".
- The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.



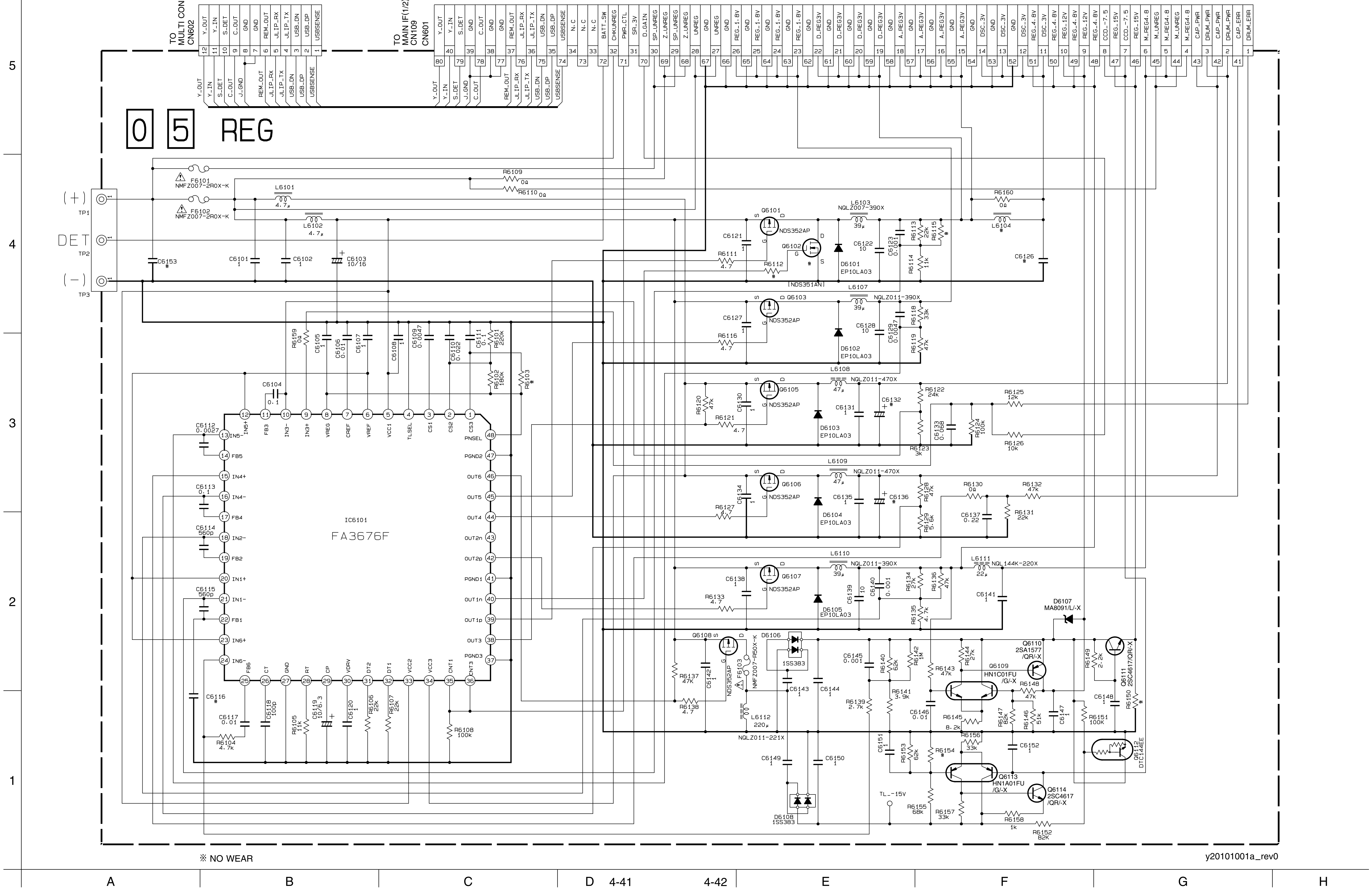
04 AUDIO
TO INFO SHOE
CN202
QGF0517F1-16X
CASSETTE DOOR Side
UN_REG
NC
STO_OFF
STRB_CHG
GATEPULS
SHOE_AD
SHOE_GND
SHOE_DET
SHOE_PWM
MIC_GND
ZMIC/L
ZMIC/R
LCD Side SHOE Pin No.
FPC
SHOE Section
SHOE_VON
D_REG3V
WB Section
IC1101 TA75W01FU
Q1151 WB SENS
PS SW
Q2904 DTC144EE
Q2905 UMH6N
TALLY DRIVE
Q2903 DTC144EE
KEY_D
PS_SW
L.SHUTTER
TO OP BLOCK
QGF0517F1-10X
CN205
M_OUT1
M_OUT2
OPEN_SW
CLOSE_SW
TO ZOOM OPE. UNIT
QGF0505F2-08X
CN203
TLY_LED
ZOOM_SW
KEY_C
TO MAIN IF(1/2)
CN112
QGB0402K1-80X
CN201
IR_OUT
IR_AMP
GND
J201 EXT MIC
QNS0168-001
TO MIC UNIT
CN204
QGA1002F1-03X
IN_MIC/R
IM_GND
IN_MIC/L
IC2201 AK4560AVQ
AK4560AVQ Rch
AK4560AVQ Lch
Audio I/F Controller
A/D Converter
D/A Converter
Control Register I/F
Clock Divider
SPK-
SPK+
AIMCK
AILRCK
AIBCK
AODAT
AIDAT
PD_L
AUDIO_CS
AULCDOUT
AULCDCLK
HP_SIG/L
HP_SIG/R
AU_SIG/R
AU_SIG/L
REG_4.8V
A_REG3V
A_GND
A_MUTE
S_SHUT
S_MUTE
BUZZER
ZMIC_ATT
EM_DET
SP_UNREG
REG_15V
TALLY
MAIN PWB REAR SIDE
1
2
3
4
5
A
B
C
D
E
F
G
H

※ NO WEAR

y10161001a_rev0.1

## 4.20 REG SCHEMATIC DIAGRAM

NOTES :
- For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".
- The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.

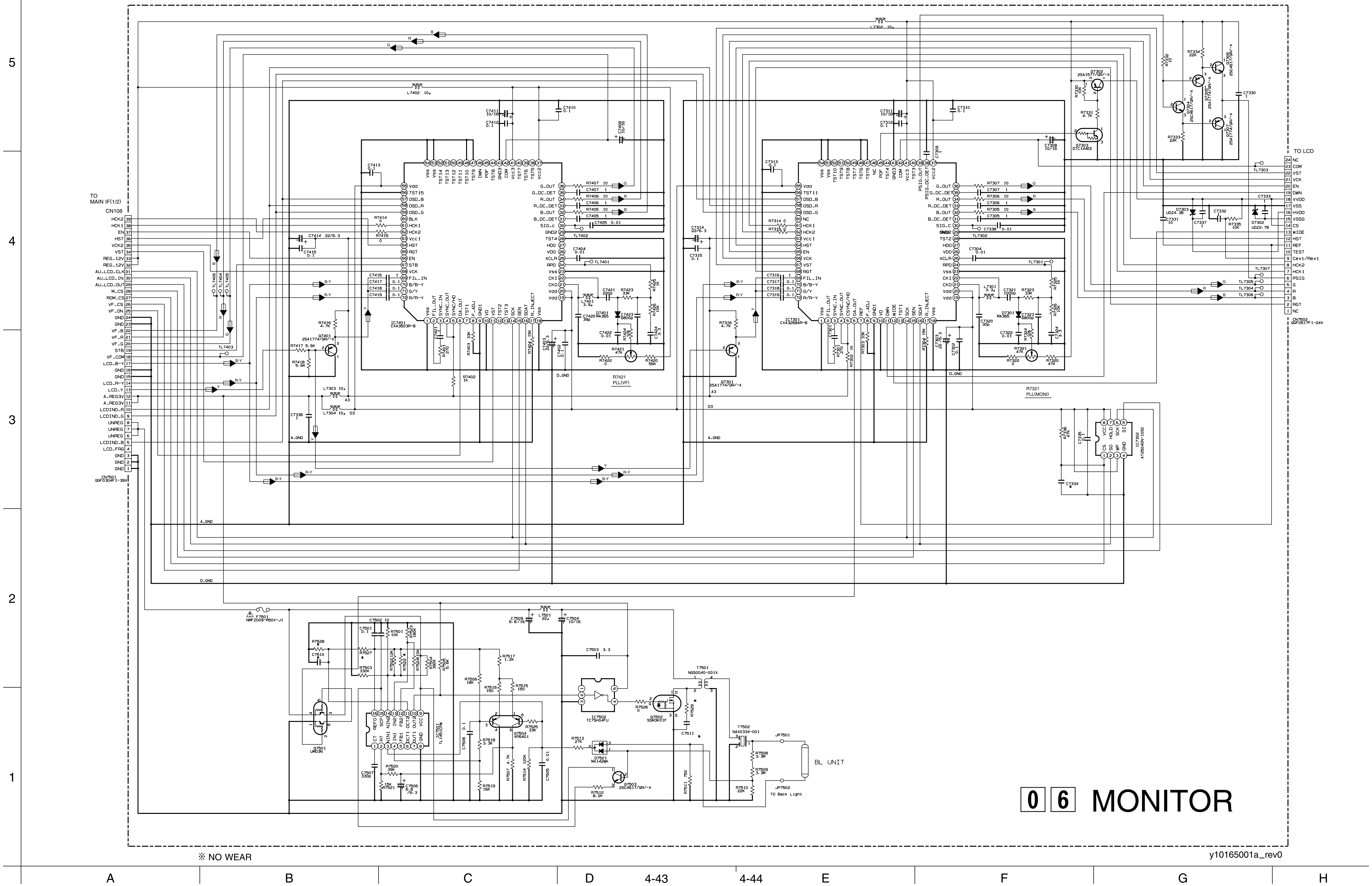

TO MULTI CONNECTOR CN602
TO MAIN IF(1/2) CN109 CN601
Y_OUT
Y_IN
S_DET
C_OUT
GND
REM_OUT
JLIP_RX
JLIP_TX
USB_DN
USB_DP
USBSENSE
J_GND
N.C
BATT_SW
CHKUNREG
PWR_CTL
SR_3V
D_GAIN
SP_UNREG
Z_UNREG
UNREG
REG_1.8V
D_REG3V
A_REG3V
DSC_3V
REG_4.8V
REG_12V
CCD_-7.5
REG_-15V
M_REG4.8
M_UNREG
CAP_PWR
DRUM_PWR
CAP_ERR
DRUM_ERR
05 REG
(+)
TP1
DET
TP2
(-)
TP3
F6101
NMFZ007-2R0X-K
F6102
NMFZ007-2R0X-K
R6109 0Ω
R6110 0Ω
L6101 4.7μ
L6102 4.7μ
C6153
C6101 1
C6102 1
C6103 10/16
R6159 0Ω
C6105 1
C6106 0.01
C6107 1
C6108 1
C6109 0.0047
C6110 0.022
C6111 0.1
R6101 220k
R6102 180k
R6103
C6104 0.1
IC6101
FA3676F
IN5+
FB3
IN3-
IN3+
VREG
CREF
VREF
VCC1
TLSEL
CS1
CS2
CS3
IN5-
FB5
IN4+
IN4-
FB4
IN2-
FB2
IN1+
IN1-
FB1
IN6+
IN6-
CT
RT
CP
VDRV
DT2
DT1
VCC2
VCC3
CNT1
CNT3
PNSEL
PGND2
OUT6
OUT5
OUT4
OUT2n
OUT2p
PGND1
OUT1n
OUT1p
OUT3
PGND3
C6112 0.0027
C6113 0.1
C6114 560p
C6115 560p
C6116
C6117 0.01
R6104 4.7k
C6118 100p
R6105 11k
C6119 10/6.3
C6120 1
R6106 22k
R6107 22k
R6108 100k
Q6101
NDS352AP
Q6102
NDS351AN
C6121
R6111 4.7
R6112
L6103
NQLZ007-390X
39μ
D6101
EP10LA03
C6122 10
C6123 0.001
R6113 22k
R6114 11k
R6115
R6160 0Ω
L6104
C6126
Q6103
NDS352AP
C6127
R6116 4.7
L6107
NQLZ011-390X
39μ
D6102
EP10LA03
C6128 10
C6129 0.0047
R6118 33k
R6119 47k
Q6105
NDS352AP
L6108
NQLZ011-470X
47μ
R6120 47k
C6130 1
R6121 4.7
D6103
EP10LA03
C6131 1
C6132
R6122 24k
R6123 3k
C6133 0.068
R6124 100k
R6125 12k
R6126 10k
Q6106
NDS352AP
L6109
NQLZ011-470X
47μ
C6134 1
R6127 4.7
D6104
EP10LA03
C6135 1
C6136
R6128 47k
R6129 5.6k
R6130 0Ω
C6137 0.22
R6131 22k
R6132 47k
Q6107
NDS352AP
L6110
NQLZ011-390X
39μ
C6138 1
R6133 4.7
D6105
EP10LA03
C6139 10
C6140 0.001
R6134 27k
R6135 4.7k
R6136 47k
L6111
NQL144K-220X
22μ
C6141 1
D6107
MA8091/L/-X
Q6108
NDS352AP
F6103
NMFZ007-R50X-K
D6106
1SS383
R6137 47k
C6142 1
R6138 4.7
C6143 1
C6144 1
L6112 220μ
NQLZ011-221X
C6145 0.001
R6140 62k
R6142 1M
R6141 3.9k
R6139 2.7k
C6146 0.01
R6143 47k
R6144 27k
Q6109
HN1C01FU
/G/-X
Q6110
2SA1577
/QR/-X
R6145 8.2k
R6148 47k
R6147 82k
R6146 51k
C6147 1
R6149 2.2k
Q6111
2SC4617/QR/-X
C6148 1
R6150
R6151 100K
R6156 33k
C6152 1
Q6112
DTC144EE
C6149 1
C6150 1
D6108
1SS383
C6151 1
R6153 62k
R6154
Q6113
HN1A01FU
/G/-X
Q6114
2SC4617
/QR/-X
TL_-15V
R6155 68k
R6157 33k
R6158 1k
R6152 82K
5
4
3
2
1
A
B
C
D
E
F
G
H

※ NO WEAR

y20101001a_rev0

## 4.21 MONITOR SCHEMATIC DIAGRAM

NOTES :
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.*



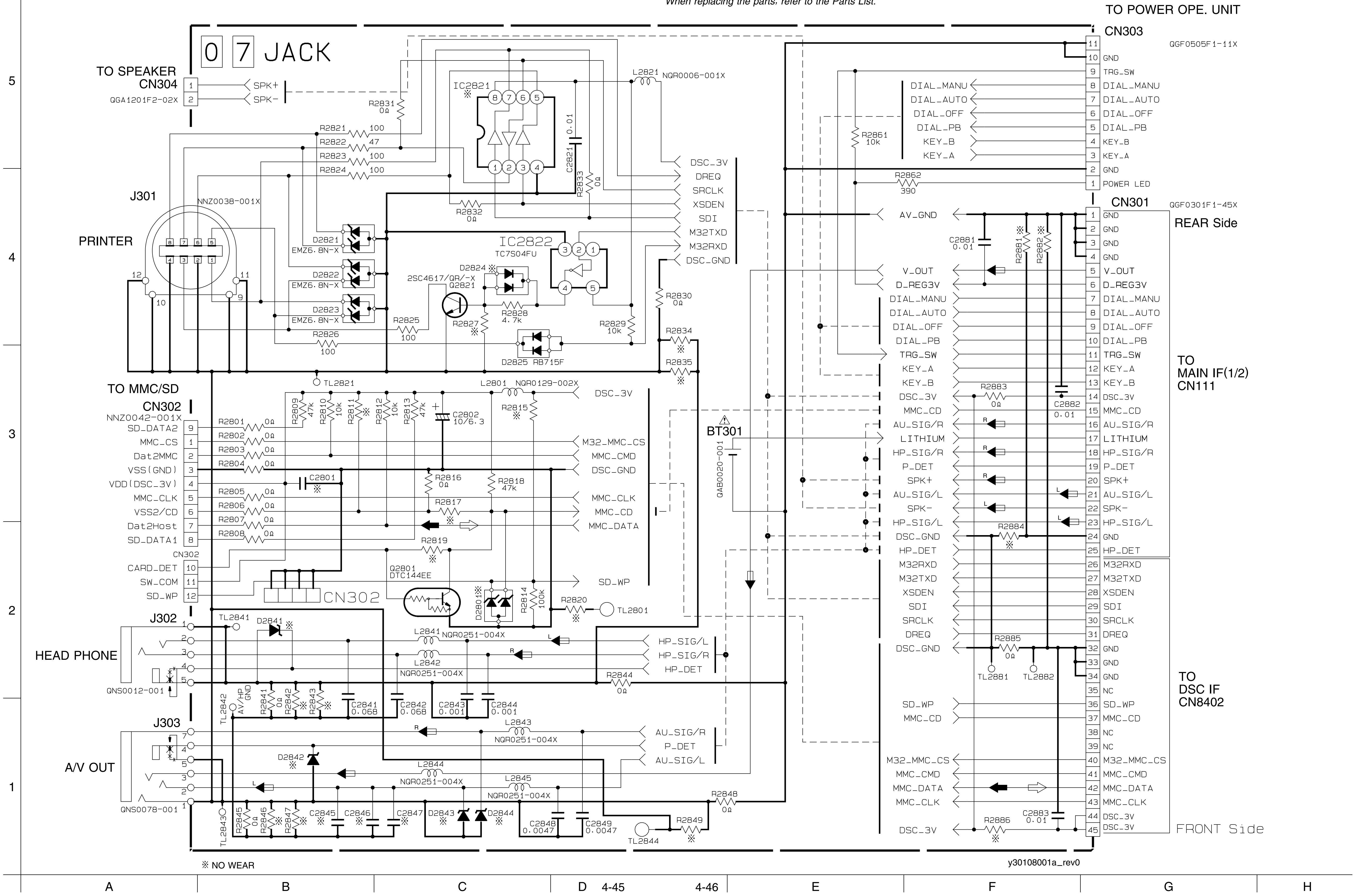
5
4
3
2
1
TO MAIN IF(1/2)
CN108
CN7501 QGF0304F1-39X
IC7401 CXA3503R-B
IC7301 CXA3268AR-B
TO LCD
CN7502 QGF0517F1-24X
IC7302 AT25040N-10SC
Q7401 2SA1774/QR/-X
Q7301 2SA1774/QR/-X
Q7302 2SA1577/QR/-X
Q7303 DTC144EE
R7421 PLL(VF)
R7321 PLL(MONI)
A.GND
D.GND
F7501 NMFZ009-R50X-J1
IC7501 TL1451CPW
Q7501 UMD3N
Q7504 XP6401
IC7502 TC7SH04FU
Q7502 SSM3K01F
T7501 NQS0040-001X
T7502 NAX0334-001
D7501 MA142WK
Q7503 2SC4617/QR/-X
JP7501
JP7502
TO Back Light
BL UNIT
0 6 MONITOR

※ NO WEAR

y10165001a_rev0

## 4.22 JACK SCHEMATIC DIAGRAM

*NOTES :*
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.*



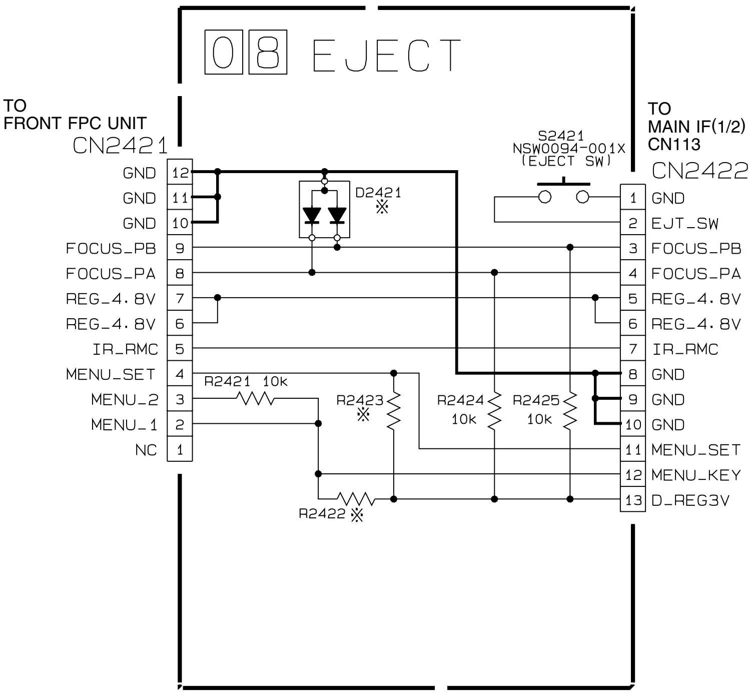
07 JACK
TO POWER OPE. UNIT
CN303
QGF0505F1-11X
11
10 GND
9 TRG_SW
8 DIAL_MANU
7 DIAL_AUTO
6 DIAL_OFF
5 DIAL_PB
4 KEY_B
3 KEY_A
2 GND
1 POWER LED
TO SPEAKER
CN304
QGA1201F2-02X
SPK+
SPK-
IC2821 ※
IC2822
TC7S04FU
L2821 NQR0006-001X
R2831 0Ω
R2821 100
R2822 47
R2823 100
R2824 100
C2821 0.01
R2833 0Ω
R2832 0Ω
R2861 10k
R2862 390
DSC_3V
DREQ
SRCLK
XSDEN
SDI
M32TXD
M32RXD
DSC_GND
J301
NNZ0038-001X
PRINTER
D2821 EMZ6.8N-X
D2822 EMZ6.8N-X
D2823 EMZ6.8N-X
D2824 ※
2SC4617/QR/-X
Q2821
R2827 ※
R2828 4.7k
R2825 100
R2826 100
R2829 10k
R2830 0Ω
R2834 ※
R2835 ※
D2825 RB715F
AV_GND
CN301
QGF0301F1-45X
REAR Side
C2881 0.01
R2881 ※
R2882 ※
1 GND
2 GND
3 GND
4 GND
5 V_OUT
6 D_REG3V
7 DIAL_MANU
8 DIAL_AUTO
9 DIAL_OFF
10 DIAL_PB
11 TRG_SW
12 KEY_A
13 KEY_B
14 DSC_3V
15 MMC_CD
16 AU_SIG/R
17 LITHIUM
18 HP_SIG/R
19 P_DET
20 SPK+
21 AU_SIG/L
22 SPK-
23 HP_SIG/L
24 GND
25 HP_DET
26 M32RXD
27 M32TXD
28 XSDEN
29 SDI
30 SRCLK
31 DREQ
32 GND
33 GND
34 GND
35 NC
36 SD_WP
37 MMC_CD
38 NC
39 NC
40 M32_MMC_CS
41 MMC_CMD
42 MMC_DATA
43 MMC_CLK
44 DSC_3V
45 DSC_3V
TO MAIN IF(1/2) CN111
TO DSC IF CN8402
FRONT Side
R2883 0Ω
C2882 0.01
R2884 ※
R2885 0Ω
TL2881
TL2882
R2886 ※
C2883 0.01
BT301
QAB0020-001
TO MMC/SD
CN302
NNZ0042-001X
9 SD_DATA2
1 MMC_CS
2 Dat2MMC
3 VSS(GND)
4 VDD(DSC_3V)
5 MMC_CLK
6 VSS2/CD
7 Dat2Host
8 SD_DATA1
10 CARD_DET
11 SW_COM
12 SD_WP
TL2821
L2801 NQR0129-002X
R2801 0Ω
R2802 0Ω
R2803 0Ω
R2804 0Ω
R2805 0Ω
R2806 0Ω
R2807 0Ω
R2808 0Ω
R2809 47k
R2810 10k
R2811 ※
R2812 10k
R2813 47k
C2802 10/6.3
R2815 ※
C2801 ※
R2816 0Ω
R2818 47k
R2817 ※
R2819 ※
M32_MMC_CS
MMC_CMD
DSC_GND
MMC_CLK
MMC_CD
MMC_DATA
SD_WP
Q2801 DTC144EE
D2801 ※
R2814 100k
R2820 ※
TL2801
J302
HEAD PHONE
QNS0012-001
TL2841
D2841 ※
L2841 NQR0251-004X
L2842 NQR0251-004X
HP_SIG/L
HP_SIG/R
HP_DET
R2844 0Ω
TL2842
AV/HP GND
R2841 0Ω
R2842 ※
R2843 ※
C2841 0.068
C2842 0.068
C2843 0.001
C2844 0.001
J303
A/V OUT
QNS0078-001
L2843 NQR0251-004X
AU_SIG/R
P_DET
AU_SIG/L
D2842 ※
L2844 NQR0251-004X
L2845 NQR0251-004X
TL2843
R2845 0Ω
R2846 ※
R2847 ※
C2845 ※
C2846 ※
C2847 ※
D2843 ※
D2844 ※
C2848 0.0047
C2849 0.0047
TL2844
R2848 0Ω
R2849 ※
R
L

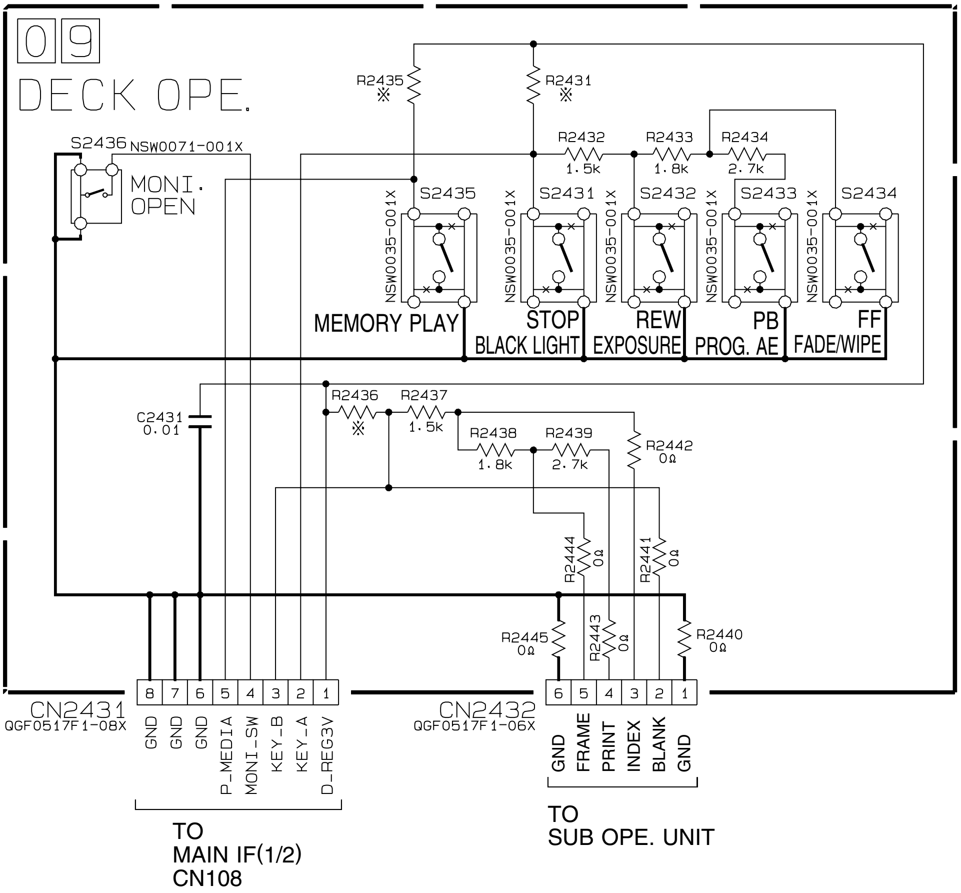
※ NO WEAR

y30108001a_rev0

## 4.23 EJECT AND DECK OPE. SCHEMATIC DIAGRAMS

*NOTES :* 
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.*

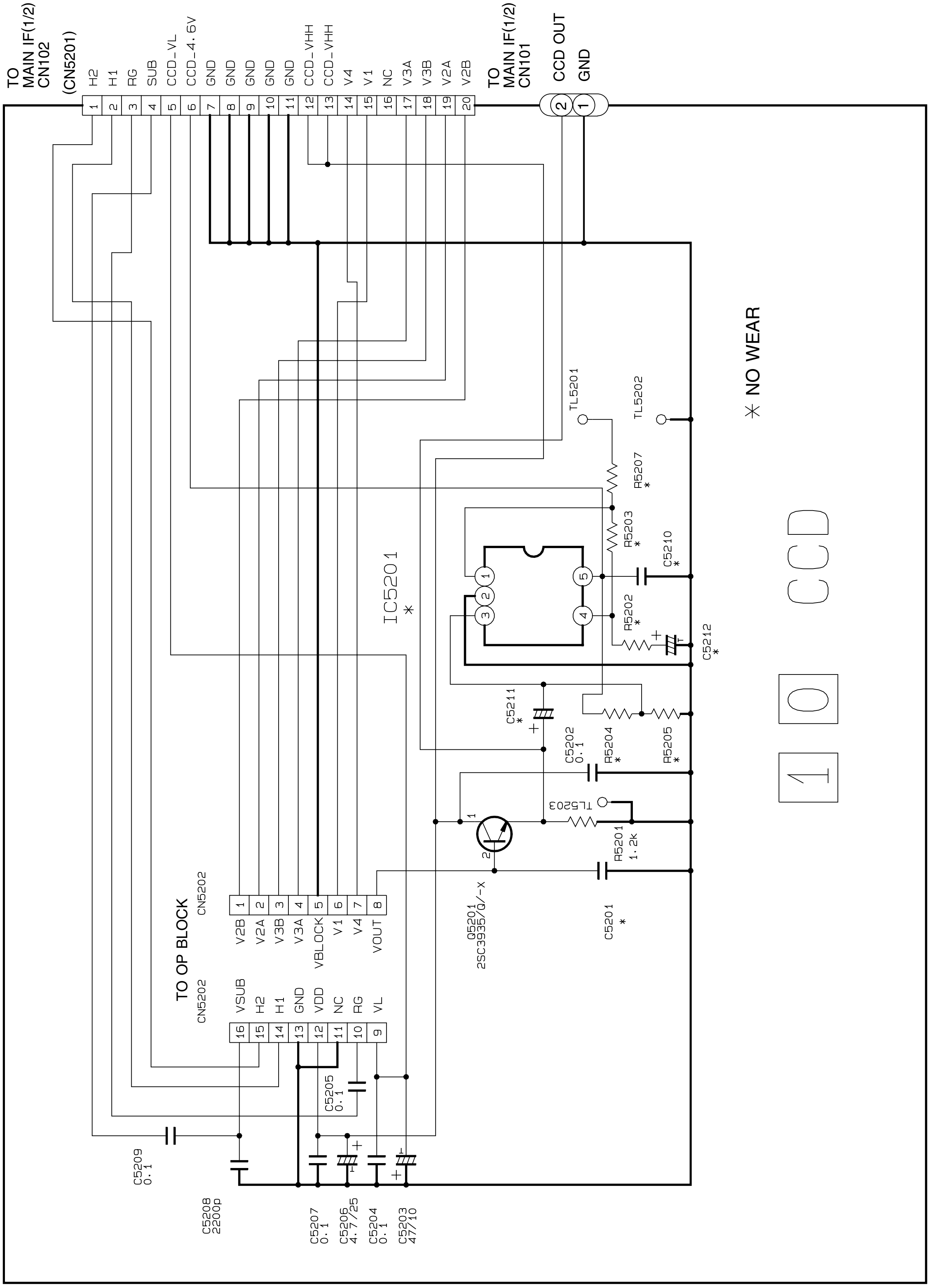

08 EJECT
TO FRONT FPC UNIT
CN2421
GND 12
GND 11
GND 10
FOCUS_PB 9
FOCUS_PA 8
REG_4.8V 7
REG_4.8V 6
IR_RMC 5
MENU_SET 4
MENU_2 3
MENU_1 2
NC 1
D2421 ※
R2421 10k
R2423 ※
R2424 10k
R2425 10k
R2422 ※
S2421 NSW0094-001X (EJECT SW)
TO MAIN IF(1/2) CN113
CN2422
1 GND
2 EJT_SW
3 FOCUS_PB
4 FOCUS_PA
5 REG_4.8V
6 REG_4.8V
7 IR_RMC
8 GND
9 GND
10 GND
11 MENU_SET
12 MENU_KEY
13 D_REG3V


09 DECK OPE.
S2436 NSW0071-001X
MONI. OPEN
R2435 ※
R2431 ※
R2432 1.5k
R2433 1.8k
R2434 2.7k
S2435
S2431
S2432
S2433
S2434
NSW0035-001X
MEMORY PLAY
STOP BLACK LIGHT
REW EXPOSURE
PB PROG. AE
FF FADE/WIPE
C2431 0.01
R2436 ※
R2437 1.5k
R2438 1.8k
R2439 2.7k
R2442 0Ω
R2444 0Ω
R2441 0Ω
R2445 0Ω
R2443 0Ω
R2440 0Ω
CN2431 QGF0517F1-08X
8 7 6 5 4 3 2 1
GND GND GND P_MEDIA MONI_SW KEY_B KEY_A D_REG3V
TO MAIN IF(1/2) CN108
CN2432 QGF0517F1-06X
6 5 4 3 2 1
GND FRAME PRINT INDEX BLANK GND
TO SUB OPE. UNIT

y20108001a_rev0

## 4.24 CCD SCHEMATIC DIAGRAM

*NOTES :*
- *For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".*
- *The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.*

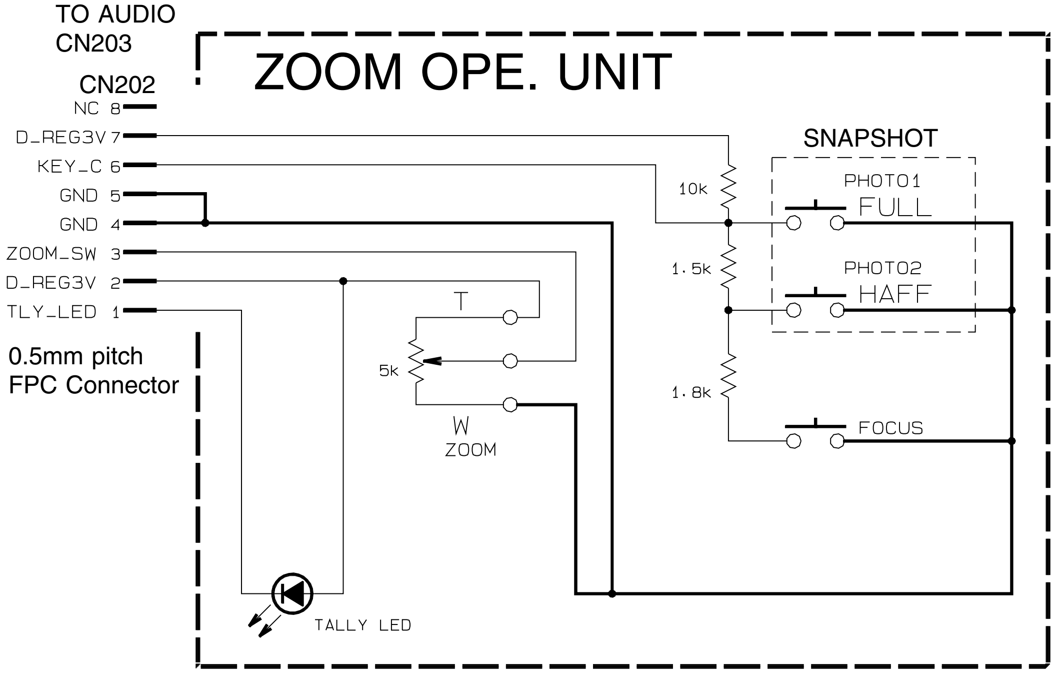


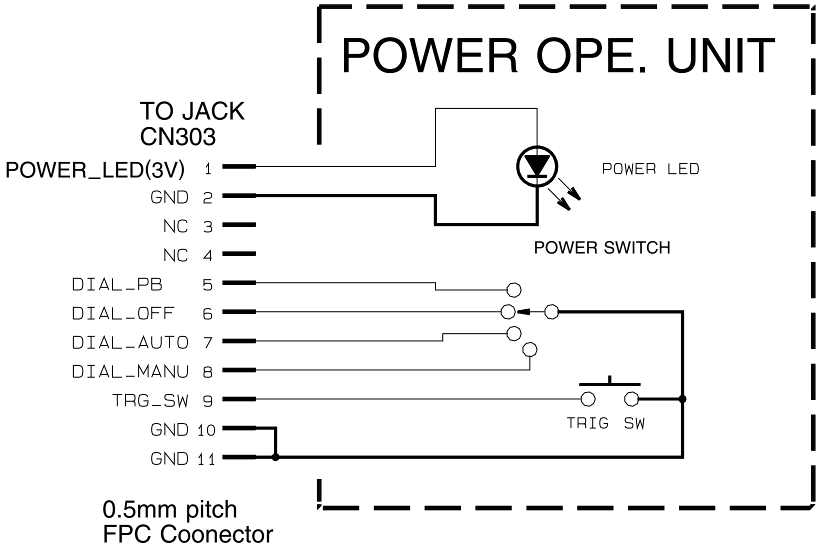
TO MAIN IF(1/2) CN102
(CN5201)
1 H2
2 H1
3 RG
4 SUB
5 CCD_VL
6 CCD_4.6V
7 GND
8 GND
9 GND
10 GND
11 GND
12 CCD_VHH
13 CCD_VHH
14 V4
15 V1
16 NC
17 V3A
18 V3B
19 V2A
20 V2B
TO MAIN IF(1/2) CN101
CCD OUT
GND
2
1
✳ NO WEAR
TL5201
TL5202
TL5203
R5207 ✳
R5203 ✳
R5202 ✳
R5204 ✳
R5205 ✳
R5201 1.2k
C5210 ✳
C5212 ✳
C5211 ✳
C5202 0.1
C5201 ✳
IC5201 ✳
1 2 3 4 5
Q5201 2SC3935/Q/-X
1
2
TO OP BLOCK
CN5202
1 V2B
2 V2A
3 V3B
4 V3A
5 VBLOCK
6 V1
7 V4
8 VOUT
CN5202
16 VSUB
15 H2
14 H1
13 GND
12 VDD
11 NC
10 RG
9 VL
C5205 0.1
C5209 0.1
C5208 2200p
C5207 0.1
C5206 4.7/25
C5204 0.1
C5203 47/10
10 CCD

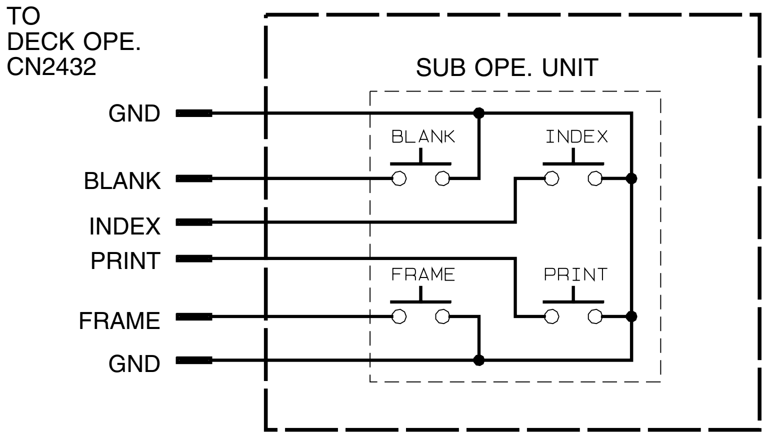
y30107001a_rev0

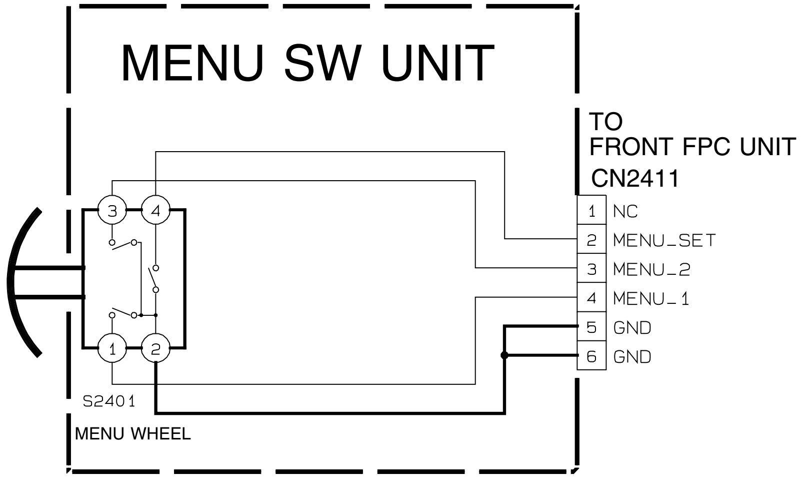
## 4.25 ZOOM OPE. UNIT, POWER OPE. UNIT, SUB OPE. UNIT, MENU SW UNIT AND FRONT FPC UNIT SCHEMATIC DIAGRAMS

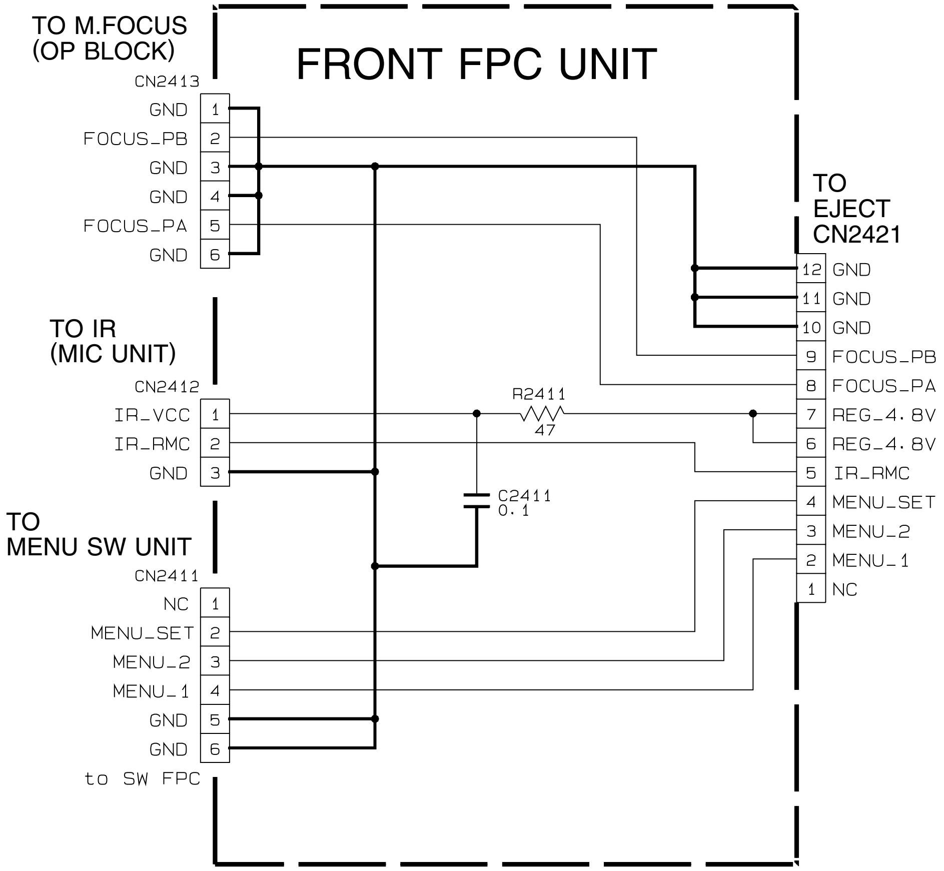
NOTES :
- For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".
- The schematic diagram is only for reference. Avoid replacing individual parts. Replace the entire unit only.


TO AUDIO
CN203
CN202
ZOOM OPE. UNIT
NC 8
D_REG3V 7
KEY_C 6
GND 5
GND 4
ZOOM_SW 3
D_REG3V 2
TLY_LED 1
0.5mm pitch
FPC Connector
SNAPSHOT
PHOTO1
FULL
PHOTO2
HAFF
10k
1.5k
1.8k
T
5k
W
ZOOM
FOCUS
TALLY LED

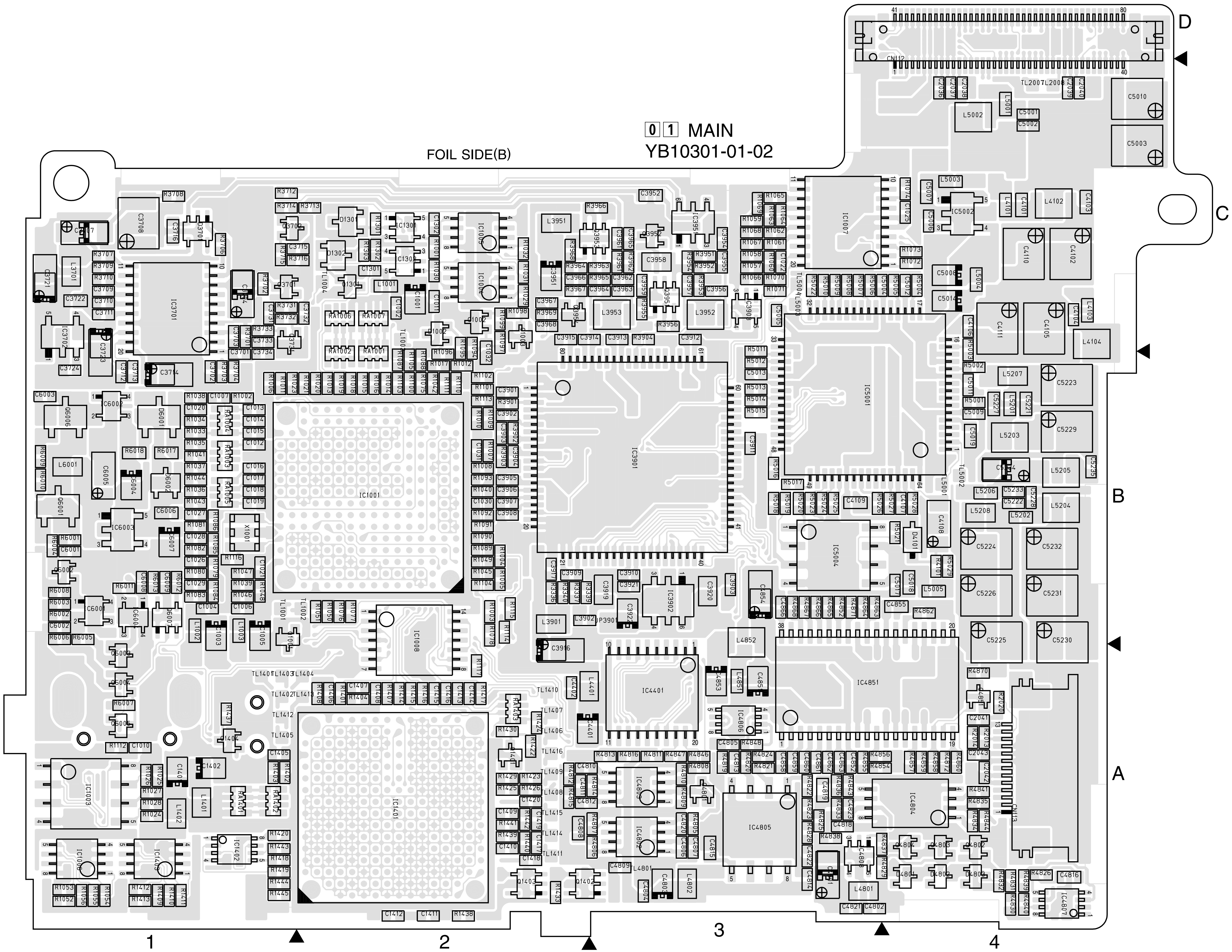

POWER OPE. UNIT
TO JACK
CN303
POWER_LED(3V) 1
GND 2
NC 3
NC 4
DIAL_PB 5
DIAL_OFF 6
DIAL_AUTO 7
DIAL_MANU 8
TRG_SW 9
GND 10
GND 11
POWER LED
POWER SWITCH
TRIG SW
0.5mm pitch
FPC Coonector


TO
DECK OPE.
CN2432
SUB OPE. UNIT
GND
BLANK
INDEX
PRINT
FRAME
GND
BLANK
INDEX
FRAME
PRINT


MENU SW UNIT
TO
FRONT FPC UNIT
CN2411
1 NC
2 MENU_SET
3 MENU_2
4 MENU_1
5 GND
6 GND
3
4
1
2
S2401
MENU WHEEL


FRONT FPC UNIT
TO M.FOCUS
(OP BLOCK)
CN2413
GND 1
FOCUS_PB 2
GND 3
GND 4
FOCUS_PA 5
GND 6
TO IR
(MIC UNIT)
CN2412
IR_VCC 1
IR_RMC 2
GND 3
TO
MENU SW UNIT
CN2411
NC 1
MENU_SET 2
MENU_2 3
MENU_1 4
GND 5
GND 6
to SW FPC
R2411
47
C2411
0.1
TO
EJECT
CN2421
12 GND
11 GND
10 GND
9 FOCUS_PB
8 FOCUS_PA
7 REG_4.8V
6 REG_4.8V
5 IR_RMC
4 MENU_SET
3 MENU_2
2 MENU_1
1 NC

## 4.26 MAIN CIRCUIT BOARD


FOIL SIDE(B)
01 MAIN
YB10301-01-02
D
C
B
A
1
2
3
4
CN112
CN113
IC1001
IC1003
IC1005
IC1006
IC1007
IC1008
IC1401
IC1402
IC1403
IC3701
IC3901
IC3902
IC4401
IC4802
IC4803
IC4804
IC4805
IC4806
IC4807
IC4851
IC5001
IC5002
IC5004
IC6003
X1001

## COMPONENT PARTS LOCATION GUIDE ＜MAIN＞

| REF.NO. | LOCATION | | |
|---|---|---|---|
| **CAPACITOR** | | | |
| C1001 | B | C | 2C |
| C1002 | B | C | 2C |
| C1003 | B | C | 1B |
| C1004 | B | C | 1B |
| C1005 | B | C | 1B |
| C1006 | B | C | 1B |
| C1007 | B | C | 1B |
| C1008 | A | C | 2B |
| C1009 | A | C | 2C |
| C1010 | B | C | 1A |
| C1011 | B | C | 2C |
| C1012 | B | C | 1B |
| C1013 | B | C | 1B |
| C1014 | B | C | 1B |
| C1015 | B | C | 1B |
| C1016 | B | C | 1B |
| C1017 | B | C | 1B |
| C1018 | B | C | 1B |
| C1019 | B | C | 1B |
| C1020 | B | C | 1B |
| C1021 | B | C | 1B |
| C1022 | B | C | 3C |
| C1023 | A | C | 3C |
| C1024 | A | C | 3C |
| C1025 | B | C | 4C |
| C1026 | B | C | 1B |
| C1027 | B | C | 1B |
| C1028 | B | C | 1B |
| C1029 | B | C | 1B |
| C1030 | B | C | 2B |
| C1031 | B | C | 2B |
| C1032 | B | C | 2B |
| C1201 | A | C | 4D |
| C1202 | A | C | 4C |
| C1203 | A | C | 4D |
| C1204 | A | C | 4C |
| C1301 | B | C | 2C |
| C1302 | B | C | 2C |
| C1401 | B | C | 1A |
| C1402 | B | C | 1A |
| C1405 | B | C | 1A |
| C1406 | B | C | 2A |
| C1407 | B | C | 2A |
| C1408 | B | C | 2A |
| C1409 | B | C | 2A |
| C1410 | B | C | 2A |
| C1411 | B | C | 2A |
| C1412 | B | C | 2A |
| C1413 | B | C | 2A |
| C1414 | B | C | 2A |
| C1415 | B | C | 2A |
| C1416 | B | C | 2A |
| C1417 | B | C | 2A |
| C1418 | B | C | 2A |
| C1419 | B | C | 2A |
| C1420 | B | C | 2A |
| C2003 | A | C | 4B |
| C2004 | A | C | 4A |
| C2005 | A | C | 4A |
| C2006 | A | C | 4A |
| C2007 | A | C | 2A |
| C2008 | A | C | 2A |
| C2009 | A | C | 2A |
| C2010 | A | C | 2A |
| C2011 | A | C | 2A |
| C2012 | A | C | 1B |
| C2013 | A | C | 2B |
| C2014 | A | C | 1B |
| C2015 | A | C | 1B |
| C2016 | A | C | 1B |
| C2017 | A | C | 1B |
| C2018 | A | C | 1B |
| C2019 | A | C | 1B |
| C2020 | A | C | 1B |
| C2021 | A | C | 1B |
| C2022 | A | C | 1B |
| C2023 | A | C | 1B |
| C2024 | A | C | 1B |
| C2025 | A | C | 1B |
| C2026 | A | C | 1B |
| C2027 | A | C | 1B |
| C2028 | A | C | 1C |
| C2029 | A | C | 1C |
| C2030 | A | C | 1C |
| C2031 | A | C | 1C |
| C2032 | A | C | 2C |
| C2033 | A | C | 3C |
| C2034 | A | C | 3C |
| C2035 | A | C | 3C |
| C2036 | B | C | 4C |
| C2037 | B | C | 4C |
| C2038 | B | C | 4C |
| C2039 | B | C | 4C |
| C2040 | B | C | 4C |
| C2041 | B | C | 4A |
| C2042 | B | C | 4A |
| C2043 | B | C | 4A |
| C3002 | A | C | 2B |
| C3005 | A | C | 2B |
| C3006 | A | C | 2B |
| C3008 | A | C | 2B |
| C3009 | A | C | 2B |
| C3010 | A | C | 2B |
| C3012 | A | C | 3B |
| C3014 | A | C | 3B |
| C3015 | A | C | 3B |
| C3016 | A | C | 2B |
| C3017 | A | C | 1B |
| C3018 | A | C | 2B |
| C3019 | A | C | 1B |
| C3020 | A | C | 2B |
| C3021 | A | C | 2B |
| C3022 | A | C | 3A |
| C3023 | A | C | 3A |
| C3024 | A | C | 3B |
| C3025 | A | C | 3B |
| C3026 | A | C | 2A |
| C3027 | A | C | 2A |
| C3028 | A | C | 2A |
| C3029 | A | C | 2A |
| C3030 | A | C | 2A |
| C3031 | A | C | 2A |
| C3032 | A | C | 2B |
| C3033 | A | C | 2B |
| C3034 | A | C | 2B |
| C3035 | A | C | 2C |
| C3036 | A | C | 2A |
| C3037 | A | C | 2A |
| C3038 | A | C | 1B |
| C3039 | A | C | 1B |
| C3040 | A | C | 1B |
| C3041 | A | C | 1B |
| C3042 | A | C | 2A |
| C3043 | A | C | 2A |
| C3044 | A | C | 2B |
| C3045 | A | C | 2B |
| C3046 | A | C | 2C |
| C3047 | A | C | 2B |
| C3048 | A | C | 2B |
| C3052 | A | C | 2B |
| C3053 | A | C | 3B |
| C3318 | A | C | 2B |
| C3319 | A | C | 2B |
| C3320 | A | C | 2B |
| C3325 | A | C | 2B |
| C3326 | A | C | 2B |
| C3328 | A | C | 3A |
| C3329 | A | C | 3A |
| C3330 | A | C | 2B |
| C3331 | A | C | 3A |
| C3332 | A | C | 3A |
| C3701 | B | C | 1B |
| C3702 | B | C | 1B |
| C3703 | B | C | 1C |
| C3704 | B | C | 1C |
| C3707 | B | C | 1C |
| C3708 | B | C | 1C |
| C3709 | B | C | 1C |
| C3710 | B | C | 1C |
| C3711 | B | C | 1C |
| C3712 | B | C | 1B |
| C3713 | B | C | 1B |
| C3714 | B | C | 1B |
| C3715 | B | C | 2C |
| C3716 | B | C | 1C |
| C3721 | B | C | 1C |
| C3722 | B | C | 1C |
| C3723 | B | C | 1B |
| C3724 | B | C | 1B |
| C3731 | B | C | 1C |
| C3732 | B | C | 2C |
| C3733 | B | C | 1C |
| C3734 | B | C | 1B |
| C3901 | B | C | 2B |
| C3902 | B | C | 2B |
| C3903 | B | C | 2B |
| C3904 | B | C | 2B |
| C3905 | B | C | 2B |
| C3906 | B | C | 2B |
| C3907 | B | C | 2B |
| C3908 | B | C | 2B |
| C3909 | B | C | 2B |
| C3910 | B | C | 3B |
| C3911 | B | C | 3B |
| C3912 | B | C | 3C |
| C3913 | B | C | 3C |
| C3914 | B | C | 3C |
| C3915 | B | C | 2C |
| C3916 | B | C | 2A |
| C3917 | B | C | 2B |
| C3919 | B | C | 3B |
| C3920 | B | C | 3B |
| C3921 | B | C | 3B |
| C3922 | B | C | 3B |
| C3951 | B | C | 2C |
| C3952 | B | C | 3C |
| C3954 | B | C | 3C |
| C3955 | B | C | 3C |
| C3956 | B | C | 3C |
| C3957 | B | C | 3C |
| C3958 | B | C | 3C |
| C3959 | B | C | 3C |
| C3961 | B | C | 3C |
| C3962 | B | C | 3C |
| C3963 | B | C | 3C |
| C3964 | B | C | 3C |
| C3965 | B | C | 3C |
| C3966 | B | C | 2C |
| C3967 | B | C | 2C |
| C3968 | B | C | 2C |
| C4101 | B | C | 4C |
| C4102 | B | C | 4C |
| C4103 | B | C | 4C |
| C4104 | B | C | 4C |
| C4105 | B | C | 4C |
| C4106 | B | C | 4C |
| C4107 | B | C | 4B |
| C4108 | B | C | 4B |
| C4109 | B | C | 3B |
| C4110 | B | C | 4C |
| C4111 | B | C | 4C |
| C4201 | A | C | 3D |
| C4202 | A | C | 4D |
| C4203 | A | C | 4C |
| C4204 | A | C | 4C |
| C4205 | A | C | 4C |
| C4206 | A | C | 4C |
| C4207 | A | C | 4C |
| C4208 | A | C | 4C |
| C4209 | A | C | 4C |
| C4210 | A | C | 4C |
| C4211 | A | C | 4C |
| C4212 | A | C | 4C |
| C4213 | A | C | 4C |
| C4214 | A | C | 4C |
| C4215 | A | C | 4C |
| C4216 | A | C | 4C |
| C4217 | A | C | 4C |
| C4218 | A | C | 4B |
| C4219 | A | C | 4B |
| C4220 | A | C | 4B |
| C4221 | A | C | 4C |
| C4222 | A | C | 4C |
| C4223 | A | C | 4C |
| C4224 | A | C | 4C |
| C4225 | A | C | 4C |
| C4226 | A | C | 4C |
| C4301 | A | C | 4B |
| C4302 | A | C | 4B |
| C4303 | A | C | 4B |
| C4304 | A | C | 4B |
| C4306 | A | C | 2B |
| C4307 | A | C | 4B |
| C4308 | A | C | 4B |
| C4309 | A | C | 3B |
| C4310 | A | C | 4B |
| C4311 | A | C | 3B |
| C4312 | A | C | 4B |
| C4313 | A | C | 3B |
| C4315 | A | C | 3B |
| C4316 | A | C | 3B |
| C4317 | A | C | 3B |
| C4318 | A | C | 4B |
| C4319 | A | C | 3B |
| C4320 | A | C | 3B |
| C4321 | A | C | 4B |
| C4322 | A | C | 3B |
| C4323 | A | C | 4C |
| C4351 | A | C | 3B |
| C4352 | A | C | 3B |
| C4353 | A | C | 3B |
| C4354 | A | C | 3B |
| C4355 | A | C | 3C |
| C4357 | A | C | 3C |
| C4359 | A | C | 3B |
| C4361 | A | C | 3B |
| C4362 | A | C | 3B |
| C4363 | A | C | 3C |
| C4364 | A | C | 3C |
| C4365 | A | C | 3C |
| C4368 | A | C | 3C |
| C4369 | A | C | 3B |
| C4370 | A | C | 3B |
| C4401 | B | C | 2A |
| C4402 | B | C | 2A |
| C4801 | B | C | 3A |
| C4802 | B | C | 3A |
| C4803 | B | C | 3A |
| C4804 | B | C | 3A |
| C4805 | B | C | 3A |
| C4806 | B | C | 3A |
| C4807 | B | C | 3A |
| C4808 | B | C | 2A |
| C4809 | B | C | 3A |
| C4810 | B | C | 2A |
| C4811 | B | C | 2A |
| C4812 | B | C | 2A |
| C4813 | B | C | 3A |
| C4814 | B | C | 3A |
| C4815 | B | C | 3A |
| C4816 | B | C | 4A |
| C4818 | B | C | 3A |
| C4819 | B | C | 3A |
| C4820 | B | C | 3A |
| C4821 | B | C | 3A |
| C4822 | B | C | 3A |
| C4823 | B | C | 3A |
| C4851 | B | C | 3A |
| C4852 | B | C | 3A |
| C4853 | B | C | 3A |
| C4854 | B | C | 3B |
| C4855 | B | C | 4B |
| C4858 | B | C | 3A |
| C4859 | B | C | 3A |
| C4860 | B | C | 3A |
| C4861 | B | C | 3A |
| C4862 | B | C | 3A |
| C4863 | B | C | 3A |
| C4864 | A | C | 4A |
| C4865 | A | C | 4A |
| C4866 | B | C | 3B |
| C4901 | A | C | 3A |
| C4902 | A | C | 3A |
| C4903 | A | C | 4A |
| C4904 | A | C | 4A |
| C4905 | A | C | 4A |
| C4906 | A | C | 3A |
| C4907 | A | C | 4A |
| C4908 | A | C | 3A |
| C4909 | A | C | 3A |
| C4910 | A | C | 3A |
| C4911 | A | C | 3A |
| C4912 | A | C | 3A |
| C4913 | A | C | 3A |
| C4914 | A | C | 3A |
| C4915 | A | C | 3A |
| C4916 | A | C | 3A |
| C4917 | A | C | 3A |
| C4918 | A | C | 3A |
| C4919 | A | C | 3A |
| C4920 | A | C | 3A |
| C4921 | A | C | 4B |
| C4922 | A | C | 3A |
| C4923 | A | C | 4A |
| C5001 | B | C | 4C |
| C5002 | B | C | 4C |
| C5003 | B | C | 4C |
| C5004 | B | C | 4C |
| C5005 | B | C | 3C |
| C5006 | B | C | 4C |
| C5007 | B | C | 4C |
| C5008 | B | C | 4C |
| C5009 | B | C | 4B |
| C5010 | B | C | 4C |
| C5011 | B | C | 4B |
| C5012 | B | C | 4C |
| C5013 | B | C | 3B |
| C5014 | B | C | 4C |
| C5017 | B | C | 4B |
| C5018 | B | C | 4B |
| C5019 | B | C | 4B |
| C5221 | B | C | 4B |
| C5222 | B | C | 4B |
| C5223 | B | C | 4B |
| C5224 | B | C | 4B |
| C5225 | B | C | 4B |
| C5226 | B | C | 4B |
| C5227 | B | C | 4B |
| C5228 | B | C | 4B |
| C5229 | B | C | 4B |
| C5230 | B | C | 4B |
| C5231 | B | C | 4B |
| C5232 | B | C | 4B |
| C5233 | B | C | 4B |
| C5234 | B | C | 4B |
| C5235 | B | C | 4B |
| C6001 | B | C | 1B |
| C6002 | B | C | 1B |
| C6003 | B | C | 1B |
| C6004 | B | C | 1B |
| C6005 | B | C | 1B |
| C6006 | B | C | 1B |
| C6007 | B | C | 1B |
| C6008 | B | C | 1B |
| C6009 | B | C | 1B |
| **CONNECTOR** | | | |
| CN101 | A | C | 4C |
| CN102 | A | C | 4B |
| CN103 | A | C | 4B |
| CN104 | A | C | 4A |
| CN105 | A | C | 4A |
| CN106 | A | C | 2A |
| CN107 | A | C | 1A |
| CN108 | A | C | 1B |
| CN109 | A | C | 1B |
| CN110 | A | C | 3C |
| CN111 | A | C | 1C |
| CN112 | B | C | 4C |
| CN113 | B | C | 4A |
| **DIODE** | | | |
| D1002 | B | C | 2C |
| D1201 | A | C | 4C |
| D1301 | B | C | 2C |
| D1302 | B | C | 2C |
| D2001 | A | C | 1C |
| D2002 | A | C | 1C |
| D2003 | A | C | 1C |
| D2004 | A | C | 1C |
| D2005 | A | C | 4C |
| D3002 | A | C | 3B |
| D3301 | A | C | 3A |
| D3302 | A | C | 3A |
| D3701 | B | C | 1C |
| D4101 | B | C | 4B |
| D4201 | A | C | 4C |
| D4801 | B | C | 4A |
| D4802 | B | C | 4A |
| D4803 | B | C | 4A |
| D6001 | B | C | 1B |
| D6002 | B | C | 1B |
| **IC** | | | |
| IC1001 | B | C | 2B |
| IC1002 | A | C | 2C |
| IC1003 | B | C | 1A |
| IC1004 | B | C | 2C |
| IC1005 | B | C | 2C |
| IC1006 | B | C | 1A |
| IC1007 | B | C | 3C |
| IC1008 | B | C | 2B |
| IC1201 | A | C | 4D |
| IC1301 | B | C | 2C |
| IC1302 | B | C | 2C |
| IC1401 | B | C | 2A |
| IC1402 | B | C | 1A |
| IC1403 | B | C | 1A |
| IC3001 | A | C | 2B |
| IC3002 | A | C | 2B |
| IC3302 | A | C | 2B |
| IC3701 | B | C | 1C |
| IC3702 | B | C | 1C |
| IC3901 | B | C | 3B |
| IC3902 | B | C | 3B |
| IC3903 | B | C | 3C |
| IC3951 | B | C | 3C |
| IC4201 | A | C | 4C |
| IC4202 | A | C | 4D |
| IC4301 | A | C | 3B |
| IC4302 | A | C | 4B |
| IC4401 | B | C | 3A |
| IC4802 | B | C | 3A |
| IC4803 | B | C | 3A |
| IC4804 | B | C | 4A |
| IC4805 | B | C | 3A |
| IC4806 | B | C | 3A |
| IC4807 | B | C | 4A |
| IC4808 | B | C | 3A |
| IC4851 | B | C | 3A |
| IC4901 | A | C | 4A |
| IC4902 | A | C | 3A |
| IC4903 | A | C | 3A |
| IC4904 | A | C | 4A |
| IC5001 | B | C | 3B |
| IC5002 | B | C | 4C |
| IC5004 | B | C | 3B |
| IC6001 | B | C | 1B |
| IC6002 | B | C | 1B |
| IC6003 | B | C | 1B |
| IC6004 | B | C | 1B |
| **COIL** | | | |
| L1001 | B | C | 2C |
| L1002 | B | C | 1B |
| L1003 | B | C | 1B |
| L1004 | A | C | 3C |
| L1201 | A | C | 4C |
| L1401 | B | C | 1A |
| L1402 | B | C | 1A |
| L2001 | A | C | 3C |
| L3001 | A | C | 1B |
| L3002 | A | C | 2A |
| L3003 | A | C | 2A |
| L3004 | A | C | 1B |
| L3005 | A | C | 2C |
| L3006 | A | C | 2B |
| L3009 | A | C | 3B |
| L3305 | A | C | 2B |
| L3307 | A | C | 1A |
| L3308 | A | C | 1A |
| L3312 | A | C | 3A |
| L3313 | A | C | 3A |
| L3701 | B | C | 1C |
| L3901 | B | C | 2B |
| L3902 | B | C | 2B |
| L3903 | B | C | 3B |
| L3951 | B | C | 2C |
| L3952 | B | C | 3C |
| L3953 | B | C | 3C |
| L4101 | B | C | 4C |
| L4102 | B | C | 4C |
| L4103 | B | C | 4C |
| L4104 | B | C | 4C |
| L4201 | A | C | 4C |
| L4202 | A | C | 4C |
| L4203 | A | C | 4C |
| L4204 | A | C | 4C |
| L4301 | A | C | 4B |
| L4302 | A | C | 4B |
| L4303 | A | C | 4B |
| L4305 | A | C | 4B |
| L4306 | A | C | 3B |
| L4307 | A | C | 4C |
| L4351 | A | C | 3C |
| L4401 | B | C | 3A |
| L4801 | B | C | 3A |
| L4802 | B | C | 3A |
| L4851 | B | C | 3A |
| L4852 | B | C | 3B |
| L4853 | A | C | 4A |
| L4901 | A | C | 3A |
| L4902 | A | C | 4A |
| L5001 | B | C | 4C |
| L5002 | B | C | 4C |
| L5003 | B | C | 4C |
| L5004 | B | C | 4C |
| L5005 | B | C | 4B |
| L5201 | B | C | 4B |
| L5202 | B | C | 4B |
| L5203 | B | C | 4B |
| L5204 | B | C | 4B |
| L5205 | B | C | 4B |
| L5206 | B | C | 4B |
| L5207 | B | C | 4B |
| L5208 | B | C | 4B |
| L6001 | B | C | 1B |
| **TRANSISTOR** | | | |
| Q1001 | B | C | 1B |
| Q1002 | B | C | 2C |
| Q1003 | B | C | 2C |
| Q1301 | B | C | 2C |
| Q1401 | B | C | 2A |
| Q1402 | B | C | 2A |
| Q1403 | B | C | 2A |
| Q1404 | B | C | 1A |
| Q2001 | A | C | 4B |
| Q2002 | A | C | 4B |
| Q3701 | B | C | 1C |
| Q3702 | B | C | 1C |
| Q3731 | B | C | 1C |
| Q3951 | B | C | 3C |
| Q3952 | B | C | 3C |
| Q3953 | B | C | 3C |
| Q3954 | B | C | 2C |
| Q4351 | A | C | 3B |
| Q4352 | A | C | 3B |
| Q4353 | A | C | 2B |
| Q4354 | A | C | 2C |
| Q4801 | B | C | 3A |
| Q4802 | B | C | 4A |
| Q4803 | B | C | 4A |
| Q4804 | B | C | 4A |
| Q4851 | B | C | 4A |
| Q4901 | A | C | 3A |
| Q6001 | B | C | 1B |
| Q6002 | B | C | 1B |
| Q6003 | B | C | 1A |
| Q6004 | B | C | 1A |
| Q6005 | B | C | 1A |
| Q6006 | B | C | 1B |
| Q6007 | B | C | 1B |
| **RESISTOR** | | | |
| R1 | A | C | 4C |
| R2 | A | C | 4C |
| R3 | A | C | 4C |
| R4 | A | C | 4C |
| R5 | A | C | 4C |
| R1001 | B | C | 2C |
| R1002 | B | C | 1B |
| R1003 | B | C | 2B |

| REF.NO. | LOCATION | | |
|---|---|---|---|
| R1004 | B | C | 2B |
| R1005 | B | C | 2B |
| R1006 | B | C | 1B |
| R1007 | B | C | 2B |
| R1008 | B | C | 2B |
| R1009 | B | C | 2B |
| R1010 | B | C | 2B |
| R1011 | B | C | 1B |
| R1012 | B | C | 2B |
| R1013 | B | C | 2B |
| R1014 | B | C | 2B |
| R1015 | B | C | 2B |
| R1016 | B | C | 2B |
| R1017 | B | C | 2B |
| R1018 | B | C | 2B |
| R1019 | B | C | 2B |
| R1020 | B | C | 2B |
| R1021 | B | C | 2B |
| R1023 | B | C | 1B |
| R1024 | B | C | 1A |
| R1025 | B | C | 1A |
| R1026 | B | C | 1A |
| R1027 | B | C | 1A |
| R1028 | B | C | 1A |
| R1029 | B | C | 2C |
| R1030 | B | C | 2C |
| R1031 | B | C | 2C |
| R1032 | B | C | 2C |
| R1033 | B | C | 1B |
| R1034 | B | C | 1B |
| R1035 | B | C | 1B |
| R1036 | B | C | 1B |
| R1037 | B | C | 1B |
| R1038 | B | C | 1B |
| R1039 | B | C | 1B |
| R1040 | B | C | 2B |
| R1041 | B | C | 1B |
| R1042 | B | C | 2B |
| R1043 | B | C | 1B |
| R1044 | B | C | 1B |
| R1045 | B | C | 2B |
| R1046 | B | C | 1B |
| R1047 | B | C | 1B |
| R1048 | B | C | 1B |
| R1049 | B | C | 2B |
| R1050 | B | C | 2B |
| R1051 | B | C | 2B |
| R1052 | B | C | 1A |
| R1053 | B | C | 1A |
| R1054 | B | C | 1A |
| R1055 | B | C | 1A |
| R1056 | B | C | 1A |
| R1057 | B | C | 3C |
| R1058 | B | C | 3C |
| R1059 | B | C | 3C |
| R1060 | B | C | 3C |
| R1061 | B | C | 3C |
| R1062 | B | C | 3C |
| R1063 | B | C | 3C |
| R1064 | B | C | 3C |
| R1065 | B | C | 3C |
| R1066 | B | C | 3C |
| R1067 | B | C | 3C |
| R1068 | B | C | 3C |
| R1069 | B | C | 3C |
| R1070 | B | C | 3C |
| R1071 | B | C | 3C |
| R1072 | B | C | 4C |
| R1073 | B | C | 4C |
| R1074 | B | C | 4C |
| R1075 | B | C | 2B |
| R1076 | B | C | 2B |
| R1077 | B | C | 2B |
| R1078 | B | C | 2B |
| R1079 | B | C | 1B |
| R1080 | B | C | 1B |
| R1081 | B | C | 1B |
| R1082 | B | C | 1B |
| R1083 | B | C | 1B |
| R1084 | B | C | 1B |
| R1085 | B | C | 1B |
| R1086 | B | C | 1B |
| R1087 | B | C | 2B |

| REF.NO. | LOCATION | | |
|---|---|---|---|
| R1088 | B | C | 2B |
| R1089 | B | C | 2B |
| R1090 | B | C | 2B |
| R1091 | B | C | 2B |
| R1092 | B | C | 2B |
| R1093 | B | C | 2B |
| R1094 | B | C | 2C |
| R1095 | B | C | 2C |
| R1096 | B | C | 2B |
| R1097 | B | C | 2C |
| R1098 | B | C | 2C |
| R1099 | B | C | 2C |
| R1100 | B | C | 2B |
| R1101 | B | C | 2B |
| R1102 | B | C | 2B |
| R1103 | B | C | 2B |
| R1104 | B | C | 2B |
| R1105 | B | C | 2B |
| R1110 | B | C | 2B |
| R1111 | B | C | 2B |
| R1112 | B | C | 1A |
| R1113 | B | C | 2B |
| R1114 | B | C | 2B |
| R1115 | B | C | 2B |
| R1116 | B | C | 1B |
| R1117 | B | C | 2A |
| R1201 | A | C | 4D |
| R1202 | A | C | 4D |
| R1301 | B | C | 2C |
| R1302 | B | C | 2C |
| R1303 | B | C | 2C |
| R1401 | B | C | 2A |
| R1402 | B | C | 1A |
| R1403 | B | C | 1A |
| R1404 | B | C | 2A |
| R1407 | B | C | 2A |
| R1408 | B | C | 2A |
| R1409 | B | C | 1A |
| R1410 | B | C | 1A |
| R1411 | B | C | 1A |
| R1412 | B | C | 1A |
| R1413 | B | C | 1A |
| R1414 | B | C | 2A |
| R1415 | B | C | 2A |
| R1416 | B | C | 2A |
| R1417 | B | C | 2A |
| R1418 | B | C | 1A |
| R1419 | B | C | 1A |
| R1420 | B | C | 1A |
| R1422 | B | C | 2A |
| R1423 | B | C | 2A |
| R1424 | B | C | 2A |
| R1425 | B | C | 2A |
| R1426 | B | C | 2A |
| R1429 | B | C | 2A |
| R1430 | B | C | 2A |
| R1433 | B | C | 2A |
| R1437 | B | C | 1A |
| R1438 | B | C | 2A |
| R1439 | B | C | 2A |
| R1440 | B | C | 2A |
| R1441 | B | C | 2A |
| R1442 | B | C | 2A |
| R1443 | B | C | 1A |
| R1444 | B | C | 1A |
| R1445 | B | C | 1A |
| R2001 | A | C | 4A |
| R2002 | A | C | 4B |
| R2003 | A | C | 1A |
| R2004 | A | C | 1A |
| R2005 | A | C | 1A |
| R2006 | A | C | 1A |
| R2007 | A | C | 1A |
| R2008 | A | C | 1A |
| R2009 | A | C | 1A |
| R2010 | A | C | 1A |
| R2011 | A | C | 1A |
| R2012 | A | C | 1A |
| R2013 | B | C | 4A |
| R2014 | B | C | 4A |
| R2015 | A | C | 4C |
| R2016 | A | C | 1C |
| R2017 | A | C | 1B |

| REF.NO. | LOCATION | | |
|---|---|---|---|
| R2018 | A | C | 1B |
| R2019 | A | C | 1B |
| R2020 | B | C | 4A |
| R3001 | A | C | 2B |
| R3002 | A | C | 2B |
| R3003 | A | C | 2B |
| R3004 | A | C | 2A |
| R3005 | A | C | 2A |
| R3006 | A | C | 1A |
| R3007 | A | C | 3B |
| R3008 | A | C | 3B |
| R3009 | A | C | 3B |
| R3010 | A | C | 2B |
| R3015 | A | C | 1B |
| R3016 | A | C | 1B |
| R3017 | A | C | 2B |
| R3018 | A | C | 1B |
| R3019 | | C | 1B |
| R3020 | A | C | 2B |
| R3021 | A | C | 2B |
| R3022 | A | C | 1B |
| R3023 | A | C | 3A |
| R3024 | A | C | 3B |
| R3025 | A | C | 1A |
| R3026 | A | C | 2B |
| R3027 | A | C | 2B |
| R3029 | A | C | 2B |
| R3030 | A | C | 2B |
| R3031 | A | C | 2B |
| R3032 | A | C | 2B |
| R3033 | A | C | 2C |
| R3034 | A | C | 2C |
| R3044 | A | C | 3B |
| R3051 | A | C | 1A |
| R3052 | A | C | 1A |
| R3053 | A | C | 1A |
| R3054 | A | C | 1A |
| R3055 | A | C | 3A |
| R3058 | A | C | 3A |
| R3059 | A | C | 3A |
| R3060 | A | C | 2B |
| R3061 | A | C | 1C |
| R3062 | A | C | 1C |
| R3063 | A | C | 1C |
| R3064 | A | C | 1C |
| R3311 | A | C | 2B |
| R3313 | A | C | 2B |
| R3314 | A | C | 2B |
| R3315 | A | C | 2B |
| R3318 | A | C | 3A |
| R3319 | A | C | 3A |
| R3321 | A | C | 2B |
| R3331 | A | C | 2A |
| R3332 | A | C | 2A |
| R3333 | A | C | 2A |
| R3334 | A | C | 2A |
| R3335 | A | C | 2A |
| R3336 | B | C | 2B |
| R3337 | B | C | 2B |
| R3338 | A | C | 3A |
| R3339 | B | C | 2B |
| R3340 | B | C | 2B |
| R3341 | A | C | 2B |
| R3342 | A | C | 3A |
| R3701 | B | C | 1C |
| R3702 | B | C | 1C |
| R3703 | B | C | 1B |
| R3704 | B | C | 1B |
| R3706 | B | C | 1C |
| R3707 | B | C | 1C |
| R3708 | B | C | 1C |
| R3709 | B | C | 1C |
| R3710 | B | C | 1C |
| R3712 | B | C | 1C |
| R3713 | B | C | 2C |
| R3714 | B | C | 1C |
| R3715 | B | C | 1C |
| R3716 | B | C | 2C |
| R3731 | B | C | 1C |
| R3732 | B | C | 1C |
| R3733 | B | C | 1C |
| R3901 | B | C | 2B |
| R3902 | B | C | 2B |

| REF.NO. | LOCATION | | |
|---|---|---|---|
| R3903 | B | C | 2B |
| R3904 | B | C | 3C |
| R3951 | B | C | 3C |
| R3952 | B | C | 3C |
| R3953 | B | C | 3C |
| R3954 | B | C | 3C |
| R3955 | B | C | 3C |
| R3956 | B | C | 3C |
| R3961 | B | C | 3C |
| R3962 | B | C | 3C |
| R3963 | B | C | 3C |
| R3964 | B | C | 2C |
| R3965 | B | C | 3C |
| R3966 | B | C | 3C |
| R3967 | B | C | 2C |
| R3968 | B | C | 2C |
| R3969 | B | C | 2C |
| R4101 | B | C | 4B |
| R4203 | A | C | 4C |
| R4204 | A | C | 4C |
| R4211 | A | C | 3C |
| R4212 | A | C | 3C |
| R4213 | A | C | 3C |
| R4214 | A | C | 3C |
| R4215 | A | C | 3C |
| R4216 | A | C | 3C |
| R4217 | A | C | 3C |
| R4218 | A | C | 3C |
| R4219 | A | C | 3C |
| R4220 | A | C | 3C |
| R4301 | A | C | 3B |
| R4302 | A | C | 3B |
| R4303 | A | C | 4B |
| R4304 | A | C | 3B |
| R4305 | A | C | 4B |
| R4306 | A | C | 4B |
| R4307 | A | C | 3B |
| R4308 | A | C | 3B |
| R4309 | A | C | 3B |
| R4310 | A | C | 3B |
| R4311 | A | C | 3B |
| R4312 | A | C | 3B |
| R4313 | A | C | 3B |
| R4314 | A | C | 4B |
| R4315 | A | C | 4B |
| R4316 | A | C | 3B |
| R4317 | A | C | 3B |
| R4318 | A | C | 4B |
| R4319 | A | C | 4B |
| R4320 | A | C | 4B |
| R4321 | A | C | 4B |
| R4322 | A | C | 3B |
| R4323 | A | C | 3B |
| R4324 | A | C | 3B |
| R4325 | A | C | 4B |
| R4326 | A | C | 3B |
| R4327 | A | C | 3B |
| R4328 | A | C | 3B |
| R4329 | A | C | 3B |
| R4330 | A | C | 4B |
| R4331 | A | C | 4B |
| R4332 | A | C | 4B |
| R4333 | A | C | 3B |
| R4334 | A | C | 3B |
| R4335 | A | C | 3B |
| R4336 | A | C | 3B |
| R4337 | A | C | 3B |
| R4342 | A | C | 4B |
| R4343 | A | C | 4B |
| R4344 | A | C | 4B |
| R4345 | A | C | 4B |
| R4346 | A | C | 4B |
| R4347 | A | C | 4B |
| R4348 | A | C | 4B |
| R4349 | A | C | 4B |
| R4351 | A | C | 3B |
| R4352 | A | C | 3B |
| R4353 | A | C | 3B |
| R4354 | A | C | 3C |
| R4355 | A | C | 3C |
| R4356 | A | C | 3B |
| R4358 | A | C | 3B |
| R4360 | A | C | 3B |

| REF.NO. | LOCATION | | |
|---|---|---|---|
| R4362 | A | C | 3B |
| R4363 | A | C | 3C |
| R4364 | A | C | 3C |
| R4365 | A | C | 3C |
| R4366 | A | C | 3B |
| R4367 | A | C | 3B |
| R4368 | A | C | 3C |
| R4369 | A | C | 2C |
| R4370 | A | C | 2C |
| R4371 | A | C | 3C |
| R4372 | A | C | 3B |
| R4373 | A | C | 3C |
| R4374 | A | C | 3B |
| R4375 | A | C | 3C |
| R4376 | A | C | 2C |
| R4377 | A | C | 3B |
| R4378 | A | C | 2C |
| R4379 | A | C | 3C |
| R4383 | A | C | 3B |
| R4384 | A | C | 4B |
| R4385 | A | C | 3B |
| R4386 | A | C | 3A |
| R4387 | A | C | 3A |
| R4388 | A | C | 3A |
| R4389 | A | C | 3B |
| R4390 | A | C | 3B |
| R4805 | B | C | 3A |
| R4806 | B | C | 3A |
| R4807 | B | C | 3A |
| R4808 | B | C | 3A |
| R4809 | B | C | 3A |
| R4810 | B | C | 3A |
| R4811 | B | C | 3A |
| R4812 | B | C | 2A |
| R4813 | B | C | 3A |
| R4814 | B | C | 3A |
| R4815 | B | C | 2A |
| R4816 | B | C | 3A |
| R4819 | B | C | 3A |
| R4820 | B | C | 3A |
| R4821 | B | C | 3A |
| R4822 | B | C | 3A |
| R4823 | B | C | 3A |
| R4824 | B | C | 3A |
| R4825 | B | C | 3A |
| R4826 | B | C | 4A |
| R4828 | B | C | 3A |
| R4829 | B | C | 4A |
| R4830 | B | C | 4A |
| R4831 | B | C | 4A |
| R4832 | B | C | 4A |
| R4833 | B | C | 3A |
| R4834 | B | C | 4A |
| R4835 | B | C | 4A |
| R4836 | B | C | 3A |
| R4837 | B | C | 4A |
| R4838 | B | C | 3A |
| R4839 | B | C | 4A |
| R4840 | B | C | 4A |
| R4841 | B | C | 4A |
| R4843 | B | C | 3A |
| R4844 | B | C | 4A |
| R4846 | B | C | 3A |
| R4847 | B | C | 3A |
| R4848 | B | C | 3A |
| R4852 | B | C | 3B |
| R4854 | B | C | 3A |
| R4855 | B | C | 3A |
| R4856 | B | C | 3A |
| R4857 | B | C | 4A |
| R4858 | B | C | 4A |
| R4859 | B | C | 4A |
| R4860 | B | C | 4A |
| R4862 | B | C | 4B |
| R4863 | B | C | 3B |
| R4864 | B | C | 3B |
| R4865 | B | C | 3B |
| R4866 | B | C | 3B |
| R4867 | B | C | 3B |
| R4868 | B | C | 3B |
| R4870 | B | C | 4A |
| R4871 | B | C | 3B |
| R4872 | B | C | 4A |

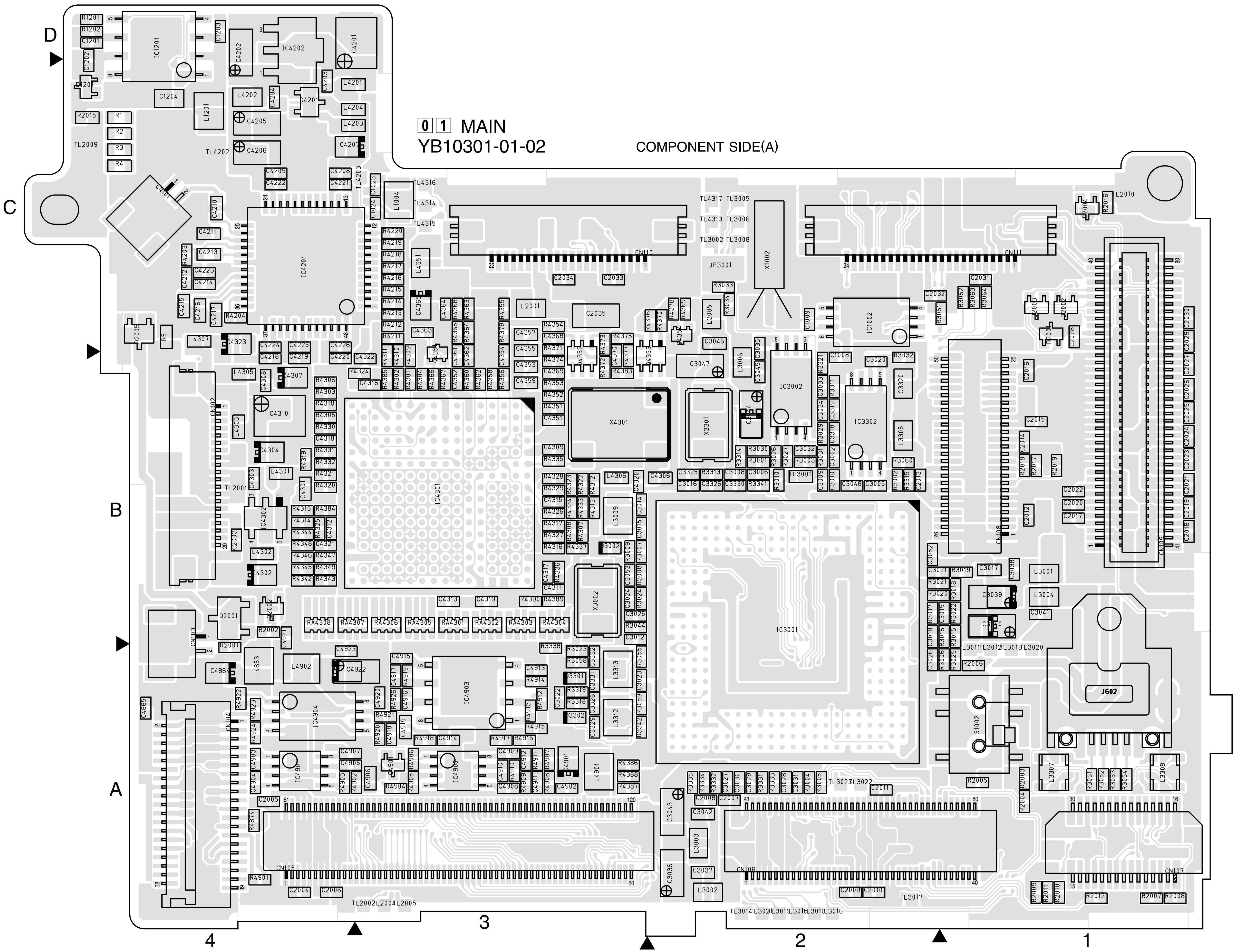
| REF.NO. | LOCATION | | |
|---|---|---|---|
| R4874 | A | C | 4A |
| R4901 | A | C | 4A |
| R4902 | A | C | 3A |
| R4903 | A | C | 4A |
| R4904 | A | C | 3A |
| R4905 | A | C | 3A |
| R4906 | A | C | 3A |
| R4907 | A | C | 3A |
| R4908 | A | C | 3A |
| R4909 | A | C | 3A |
| R4910 | A | C | 3A |
| R4911 | A | C | 3A |
| R4912 | A | C | 3A |
| R4913 | A | C | 3A |
| R4914 | A | C | 3A |
| R4915 | A | C | 3A |
| R4916 | A | C | 3A |
| R4917 | A | C | 3A |
| R4918 | A | C | 3A |
| R4919 | A | C | 3A |
| R4920 | A | C | 3A |
| R4921 | A | C | 3A |
| R4922 | A | C | 4A |
| R4923 | A | C | 4A |
| R4924 | A | C | 4A |
| R4926 | A | C | 3A |
| R5001 | B | C | 4B |
| R5002 | B | C | 4B |
| R5003 | B | C | 4C |
| R5004 | B | C | 4C |
| R5005 | B | C | 4C |
| R5006 | B | C | 3C |
| R5007 | B | C | 3C |
| R5008 | B | C | 3C |
| R5009 | B | C | 3C |
| R5010 | B | C | 3C |
| R5011 | B | C | 3C |
| R5012 | B | C | 3B |
| R5013 | B | C | 3B |
| R5014 | B | C | 3B |
| R5015 | B | C | 3B |
| R5016 | B | C | 3B |
| R5017 | B | C | 3B |
| R5018 | B | C | 3B |
| R5019 | B | C | 3B |
| R5020 | B | C | 3B |
| R5021 | B | C | 4B |
| R5022 | B | C | 3C |
| R5023 | B | C | 3B |
| R5024 | B | C | 3B |
| R5025 | B | C | 3B |
| R5026 | B | C | 3B |
| R5027 | B | C | 4B |
| R5028 | B | C | 4B |
| R5029 | B | C | 4B |
| R6001 | B | C | 1B |
| R6002 | B | C | 1B |
| R6003 | B | C | 1B |
| R6004 | B | C | 1B |
| R6005 | B | C | 1B |
| R6006 | B | C | 1B |
| R6007 | B | C | 1A |
| R6008 | B | C | 1B |
| R6009 | B | C | 1B |
| R6010 | B | C | 1B |
| R6011 | B | C | 1B |
| R6012 | B | C | 1B |
| R6013 | B | C | 1B |
| R6017 | B | C | 1B |
| R6018 | B | C | 1B |
| RA1001 | B | C | 2B |
| RA1002 | B | C | 2B |
| RA1003 | B | C | 1B |
| RA1004 | B | C | 1B |
| RA1005 | B | C | 1B |
| RA1006 | B | C | 2C |
| RA1007 | B | C | 2C |
| RA1401 | B | C | 1A |
| RA1402 | B | C | 1A |
| RA1403 | B | C | 2A |
| RA4301 | A | C | 3B |
| RA4302 | A | C | 3B |
| RA4303 | A | C | 3B |

| REF.NO. | LOCATION | | |
|---|---|---|---|
| RA4304 | A | C | 3B |
| RA4305 | A | C | 3B |
| RA4306 | A | C | 3B |
| RA4307 | A | C | 4B |
| RA4308 | A | C | 4B |
| **OTHER** | | | |
| J602 | A | D | 1A |
| JP3001 | A | C | 2C |
| JP3901 | B | C | 3B |
| PC08 | A | C | 5A |
| S1002 | A | C | 1A |
| TH3001 | A | C | 2B |
| TL1001 | B | C | 1B |
| TL1002 | B | C | 2B |
| TL1003 | B | C | 2C |
| TL1004 | B | C | 2C |
| TL1401 | B | C | 1A |
| TL1402 | B | C | 1A |
| TL1403 | B | C | 1A |
| TL1404 | B | C | 2A |
| TL1405 | B | C | 1A |
| TL1406 | B | C | 2A |
| TL1407 | B | C | 2A |
| TL1408 | B | C | 2A |
| TL1409 | B | C | 2A |
| TL1410 | B | C | 2A |
| TL1411 | B | C | 2A |
| TL1412 | B | C | 1A |
| TL1413 | B | C | 2A |
| TL1414 | B | C | 2A |
| TL1415 | B | C | 2A |
| TL1416 | B | C | 2A |
| TL2001 | A | C | 4B |
| TL2002 | A | C | 3A |
| TL2004 | A | C | 3A |
| TL2005 | A | C | 3A |
| TL2007 | B | C | 4C |
| TL2008 | B | C | 4C |
| TL2009 | A | C | 4C |
| TL2010 | A | C | 1C |
| TL3002 | A | C | 2C |
| TL3005 | A | C | 2C |
| TL3006 | A | C | 2C |
| TL3008 | A | C | 2C |
| TL3011 | A | C | 1A |
| TL3012 | A | C | 1A |
| TL3013 | A | C | 2A |
| TL3014 | A | C | 2A |
| TL3015 | A | C | 2A |
| TL3016 | A | C | 2A |
| TL3017 | A | C | 2A |
| TL3018 | A | C | 1A |
| TL3019 | A | C | 2A |
| TL3020 | A | C | 1A |
| TL3021 | A | C | 2A |
| TL3022 | A | C | 2A |
| TL3023 | A | C | 2A |
| TL4202 | A | C | 4C |
| TL4203 | A | C | 3C |
| TL4313 | A | C | 2C |
| TL4314 | A | C | 3C |
| TL4315 | A | C | 3C |
| TL4316 | A | C | 3C |
| TL4317 | A | C | 2C |
| TL4801 | B | C | 3A |
| TL5001 | B | C | 4B |
| TL5002 | B | C | 4B |
| TL5003 | B | C | 3C |
| TL5004 | B | C | 3C |
| X1001 | B | C | 1B |
| X1002 | A | C | 2C |
| X3002 | A | C | 3B |
| X3301 | A | C | 2B |
| X4301 | A | C | 3B |

## 0 1 MAIN

YB10301-01-02

COMPONENT SIDE(A)


D
C
B
A
1
2
3
4
IC1201
IC4202
IC4201
IC4301
IC3001
IC3002
IC3302
IC1002
IC4903
IC4904
IC4901
IC4902
X4301
X3301
X3002
X1002
CN101
CN102
CN103
CN104
CN105
CN106
CN107
CN108
CN109
CN110
CN111
J602
S1002
Q2001
L4902
L4901
L4853
L3313
L3312
L3009
L3005
L3006
L3305
L3001
L3004
L3307
L3308
L3003
L3002
L4301
L4302
L4305
L4306
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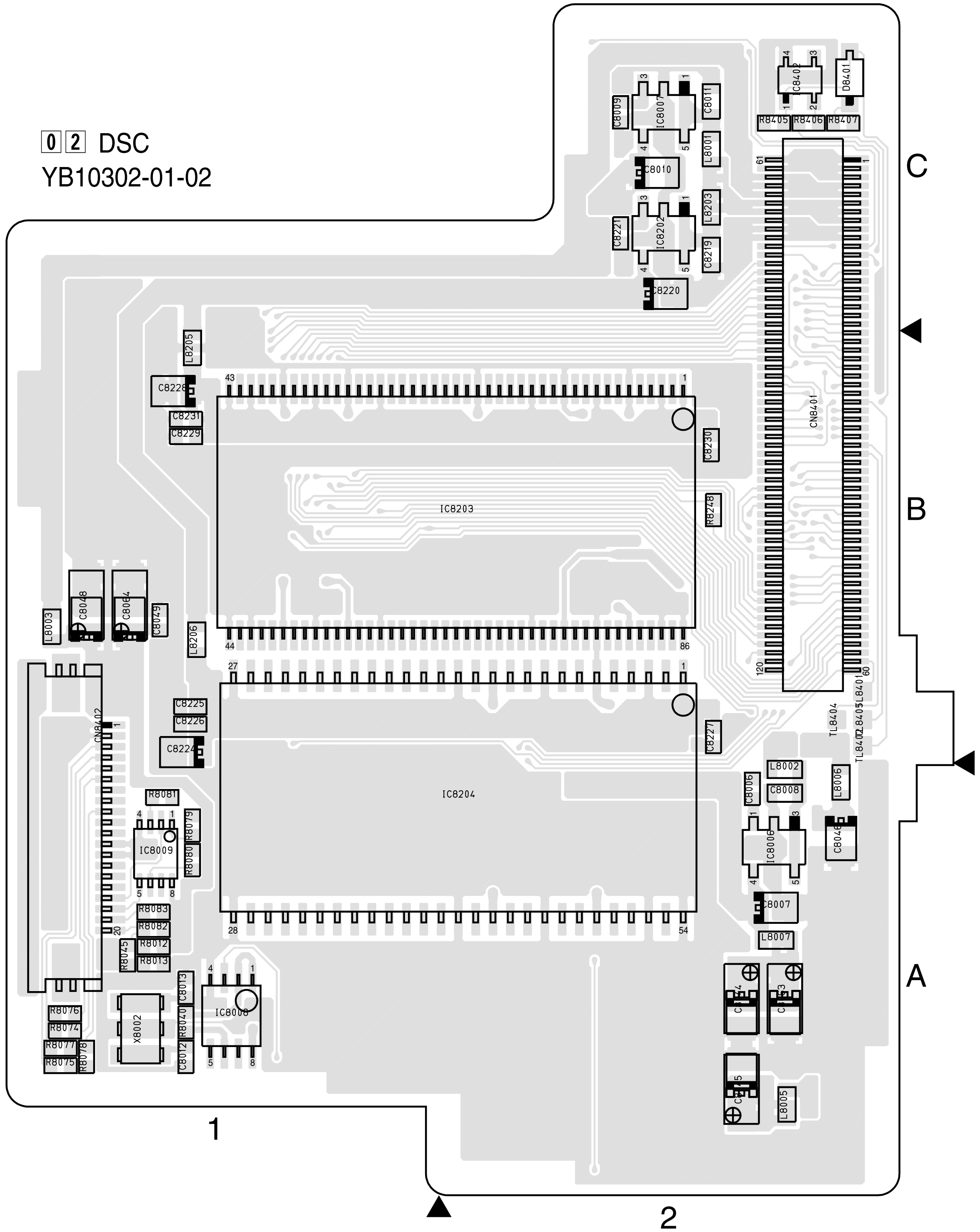
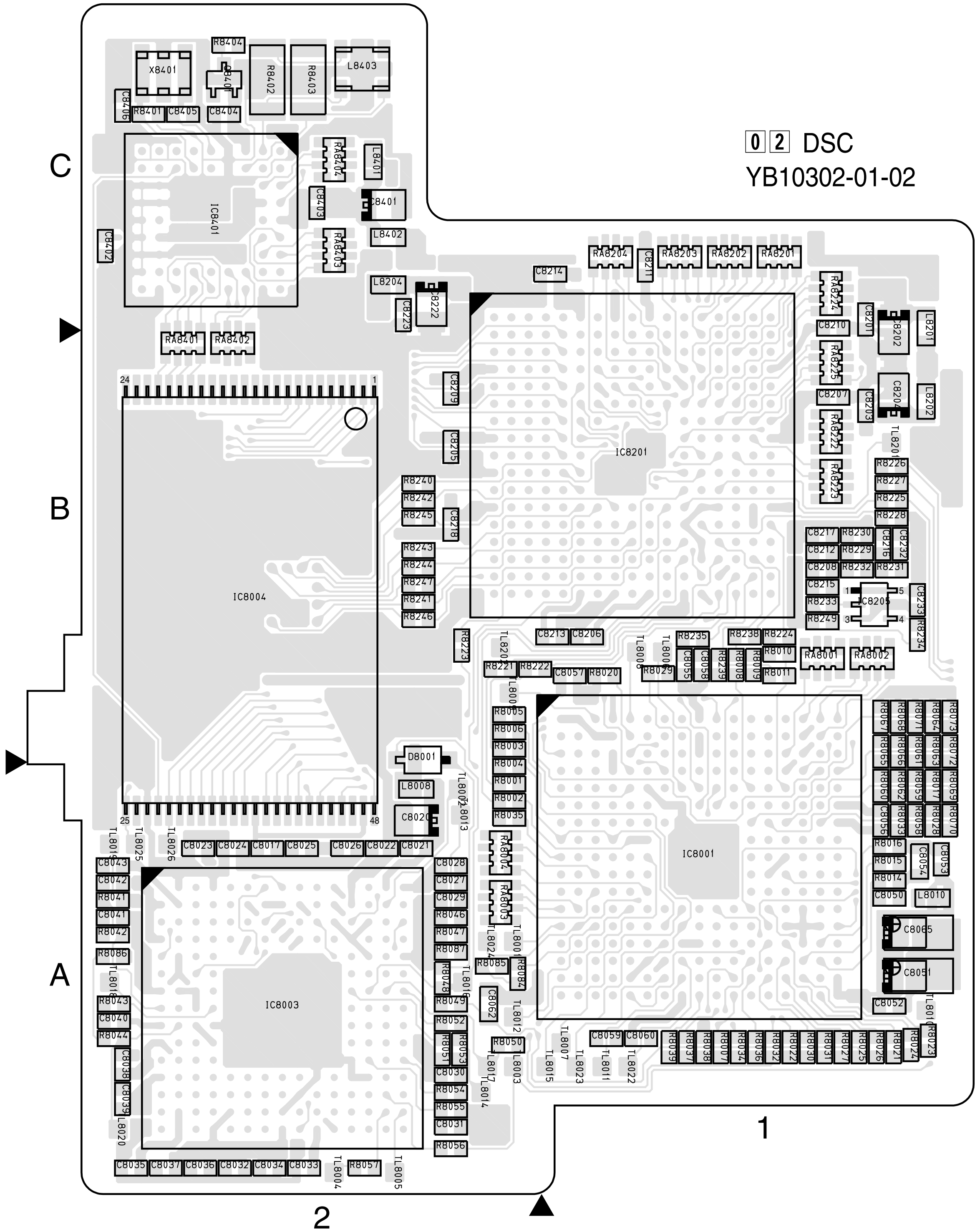
L1004
L1201
L2001
C2035
C3047
C4310

## 4.27 DSC CIRCUIT BOARD

FOIL SIDE(B)



COMPONENT SIDE(A)

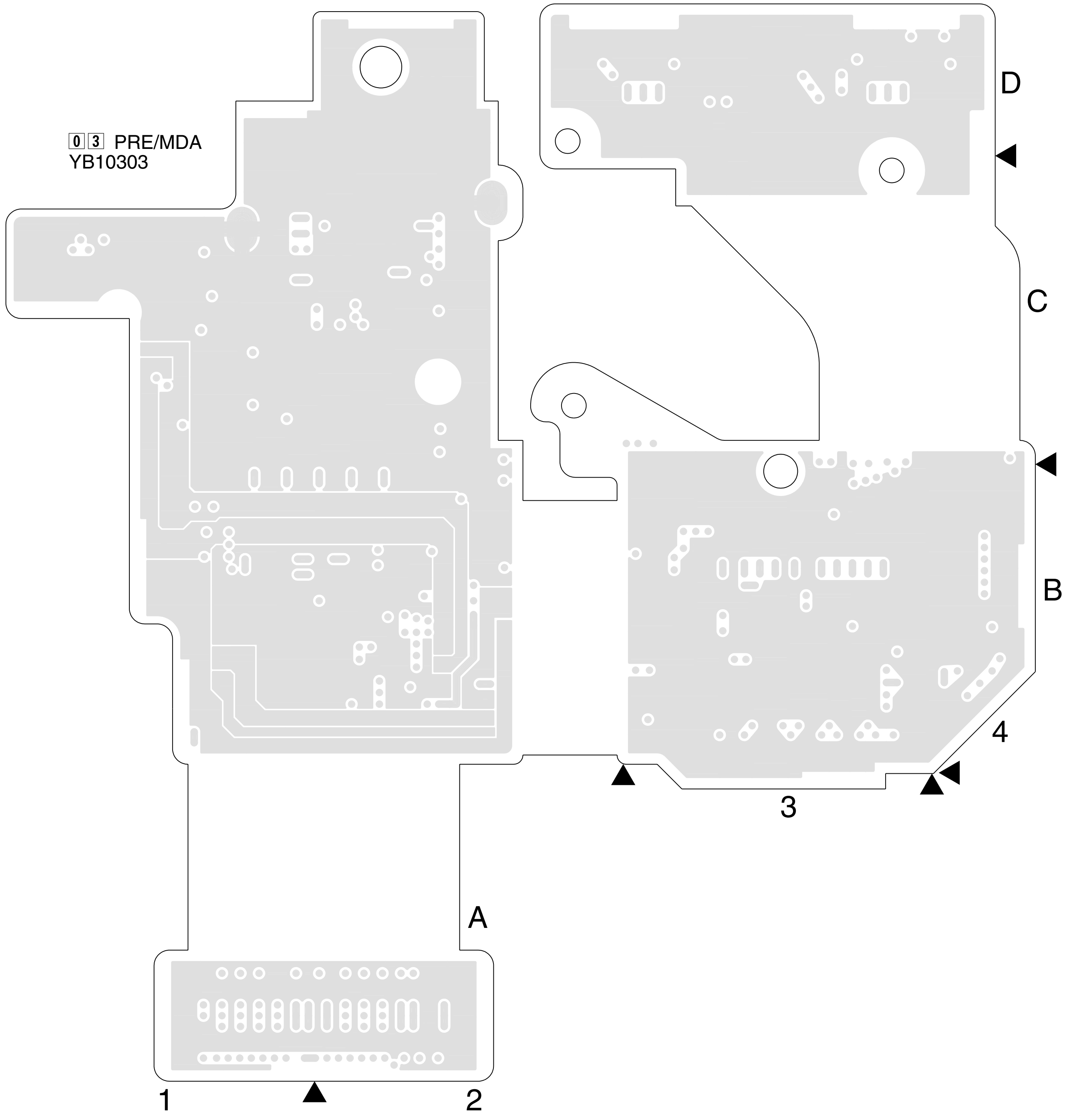


### COMPONENT PARTS LOCATION GUIDE ＜DSC＞

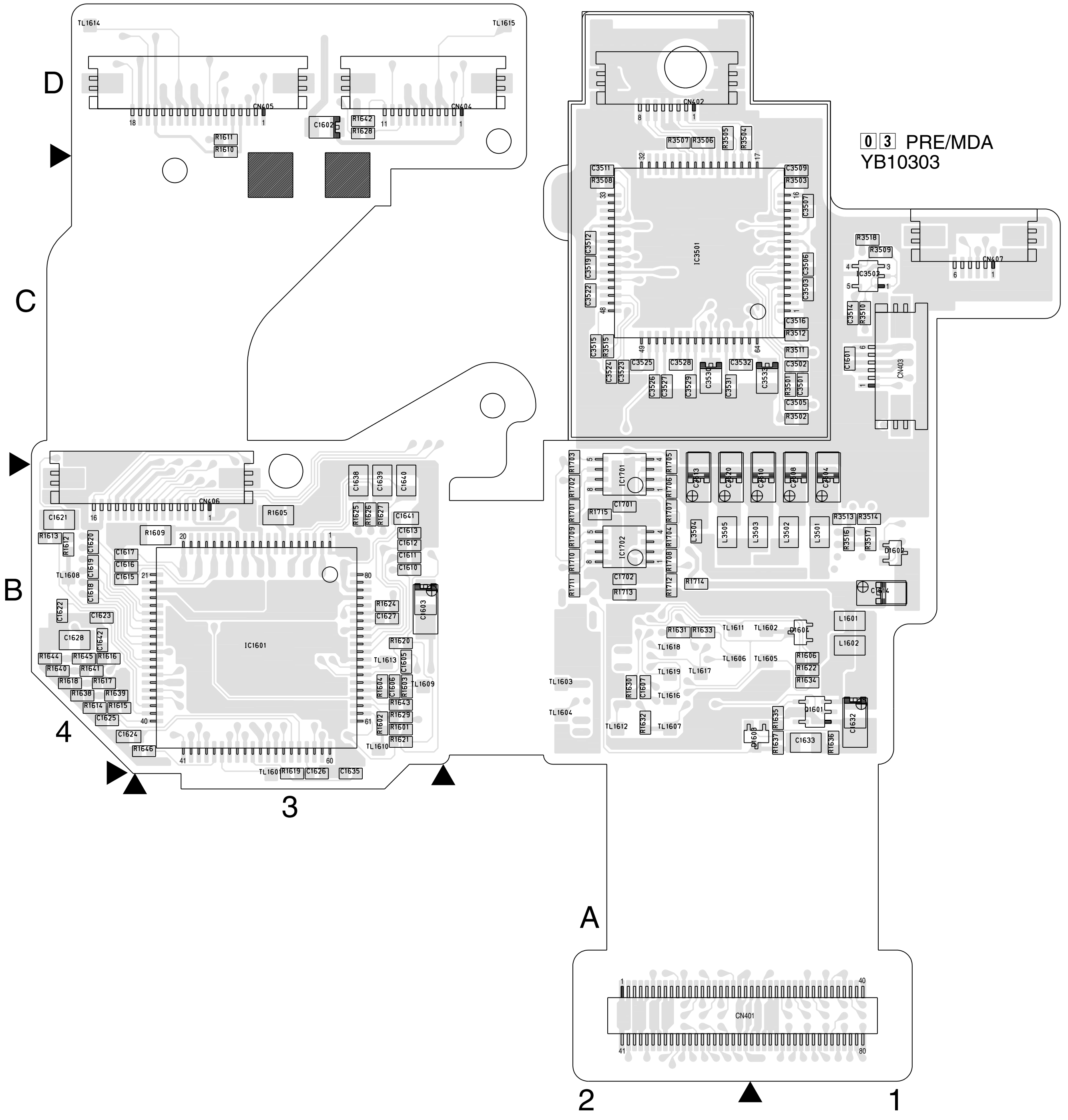
| REF.NO. | LOCATION | | |
|---|---|---|---|
| **CAPACITOR** | | | |
| C8006 | B | C | 2A |
| C8007 | B | C | 2A |
| C8008 | B | C | 2A |
| C8009 | B | C | 2C |
| C8010 | B | C | 2C |
| C8011 | B | C | 2C |
| C8012 | B | C | 1A |
| C8013 | B | C | 1A |
| C8017 | A | C | 2A |
| C8020 | A | C | 2A |
| C8021 | A | C | 2A |
| C8022 | A | C | 2A |
| C8023 | A | C | 2A |
| C8024 | A | C | 2A |
| C8025 | A | C | 2A |
| C8026 | A | C | 2A |
| C8027 | A | C | 2A |
| C8028 | A | C | 2A |
| C8029 | A | C | 2A |
| C8030 | A | C | 2A |
| C8031 | A | C | 2A |
| C8032 | A | C | 2A |
| C8033 | A | C | 2A |
| C8034 | A | C | 2A |
| C8035 | A | C | 2A |
| C8036 | A | C | 2A |
| C8037 | A | C | 2A |
| C8038 | A | C | 2A |
| C8039 | A | C | 2A |
| C8040 | A | C | 2A |
| C8041 | A | C | 2A |
| C8042 | A | C | 2A |
| C8043 | A | C | 2A |
| C8044 | B | C | 2A |
| C8045 | B | C | 2A |
| C8046 | B | C | 2A |
| C8048 | B | C | 1B |
| C8049 | B | C | 1B |
| C8050 | A | C | 1A |
| C8051 | A | C | 1A |
| C8052 | A | C | 1A |
| C8053 | A | C | 1A |
| C8054 | A | C | 1A |
| C8055 | A | C | 1B |
| C8056 | A | C | 1A |
| C8057 | A | C | 1B |
| C8058 | A | C | 1B |
| C8059 | A | C | 1A |
| C8060 | A | C | 1A |
| C8062 | A | C | 2A |
| C8063 | B | C | 2A |
| C8064 | B | C | 1B |
| C8065 | A | C | 1A |
| C8201 | A | C | 1C |
| C8202 | A | C | 1B |
| C8203 | A | C | 1B |
| C8204 | A | C | 1B |
| C8205 | A | C | 2B |
| C8206 | A | C | 1B |
| C8207 | A | C | 1B |
| C8208 | A | C | 1B |
| C8209 | A | C | 2B |
| C8210 | A | C | 1C |
| C8211 | A | C | 1C |
| C8212 | A | C | 1B |
| C8213 | A | C | 1B |
| C8214 | A | C | 1C |
| C8215 | A | C | 1B |
| C8216 | A | C | 1B |
| C8217 | A | C | 1B |
| C8218 | A | C | 2B |
| C8219 | B | C | 2C |
| C8220 | B | C | 2C |
| C8221 | B | C | 2C |
| C8222 | A | C | 2C |
| C8223 | A | C | 2C |
| C8224 | B | C | 1B |
| C8225 | B | C | 1B |
| C8226 | B | C | 1B |
| C8227 | B | C | 2B |
| C8228 | B | C | 1B |
| C8229 | B | C | 1B |
| C8230 | B | C | 2B |
| C8231 | B | C | 1B |
| C8232 | A | C | 1B |
| C8233 | A | C | 1B |
| C8401 | A | C | 2C |
| C8402 | A | C | 3C |
| C8403 | A | C | 2C |
| C8404 | A | C | 2C |
| C8405 | A | C | 2C |
| C8406 | A | C | 2C |
| **CONNECTOR** | | | |
| CN8401 | B | C | 2C |
| CN8402 | B | C | 1B |
| **DIODE** | | | |
| D8001 | A | C | 2B |
| D8401 | B | C | 2C |
| **IC** | | | |
| IC8001 | A | C | 1A |
| IC8003 | A | C | 2A |
| IC8004 | A | C | 2B |
| IC8006 | B | C | 2A |
| IC8007 | B | C | 2C |
| IC8008 | B | C | 1A |
| IC8009 | B | C | 1A |
| IC8201 | A | C | 1B |
| IC8202 | B | C | 2C |
| IC8203 | B | C | 2B |
| IC8204 | B | C | 2A |
| IC8205 | A | C | 1B |
| IC8401 | A | C | 2C |
| IC8402 | B | C | 2C |
| **COIL** | | | |
| L8001 | B | C | 2C |
| L8002 | B | C | 2A |
| L8003 | B | C | 1B |
| L8005 | B | C | 2A |
| L8006 | B | C | 2A |
| L8007 | B | C | 2A |
| L8008 | A | C | 2A |
| L8010 | A | C | 1A |
| L8201 | A | C | 1C |
| L8202 | A | C | 1B |
| L8203 | B | C | 2C |
| L8204 | A | C | 2C |
| L8205 | B | C | 1B |
| L8206 | B | C | 1B |
| L8401 | A | C | 2C |
| L8402 | A | C | 2C |
| L8403 | A | C | 2C |
| **TRANSISTOR** | | | |
| Q8401 | A | C | 2C |
| **RESISTOER** | | | |
| R8001 | A | C | 2A |
| R8002 | A | C | 2A |
| R8003 | A | C | 2B |
| R8004 | A | C | 2A |
| R8005 | A | C | 2B |
| R8006 | A | C | 2B |
| R8007 | A | C | 1A |
| R8008 | A | C | 1B |
| R8009 | A | C | 1B |
| R8010 | A | C | 1B |
| R8011 | A | C | 1B |
| R8012 | B | C | 1A |
| R8013 | B | C | 1A |
| R8014 | A | C | 1A |
| R8015 | A | C | 1A |
| R8016 | A | C | 1A |
| R8017 | A | C | 1A |
| R8020 | A | C | 1B |
| R8021 | A | C | 1A |
| R8022 | A | C | 1A |
| R8023 | A | C | 1A |
| R8024 | A | C | 1A |
| R8025 | A | C | 1A |
| R8026 | A | C | 1A |
| R8027 | A | C | 1A |
| R8028 | A | C | 1A |
| R8029 | A | C | 1B |
| R8030 | A | C | 1A |
| R8031 | A | C | 1A |
| R8032 | A | C | 1A |
| R8033 | A | C | 1A |
| R8034 | A | C | 1A |
| R8035 | A | C | 2A |
| R8036 | A | C | 1A |
| R8037 | A | C | 1A |
| R8038 | A | C | 1A |
| R8039 | A | C | 1A |
| R8040 | B | C | 1A |
| R8041 | A | C | 2A |
| R8042 | A | C | 2A |
| R8043 | A | C | 2A |
| R8044 | A | C | 2A |
| R8045 | B | C | 1A |
| R8046 | A | C | 2A |
| R8047 | A | C | 2A |
| R8048 | A | C | 2A |
| R8049 | A | C | 2A |
| R8050 | A | C | 2A |
| R8051 | A | C | 2A |
| R8052 | A | C | 2A |
| R8053 | A | C | 2A |
| R8054 | A | C | 2A |
| R8055 | A | C | 2A |
| R8056 | A | C | 2A |
| R8057 | A | C | 2A |
| R8058 | A | C | 1A |
| R8059 | A | C | 1A |
| R8060 | A | C | 1A |
| R8061 | A | C | 1B |
| R8062 | A | C | 1A |
| R8063 | A | C | 1B |
| R8064 | A | C | 1B |
| R8065 | A | C | 1B |
| R8066 | A | C | 1B |
| R8067 | A | C | 1B |
| R8068 | A | C | 1B |
| R8069 | A | C | 1A |
| R8070 | A | C | 1A |
| R8071 | A | C | 1B |
| R8072 | A | C | 1B |
| R8073 | A | C | 1B |
| R8074 | B | C | 1A |
| R8075 | B | C | 1A |
| R8076 | B | C | 1A |
| R8077 | B | C | 1A |
| R8078 | B | C | 1A |
| R8079 | B | C | 1A |
| R8080 | B | C | 1A |
| R8081 | B | C | 1A |
| R8082 | B | C | 1A |
| R8083 | B | C | 1A |
| R8084 | A | C | 2A |
| R8085 | A | C | 2A |
| R8086 | A | C | 2A |
| R8087 | A | C | 2A |
| R8221 | A | C | 2B |
| R8222 | A | C | 2B |
| R8223 | A | C | 2B |
| R8224 | A | C | 1B |
| R8225 | A | C | 1B |
| R8226 | A | C | 1B |
| R8227 | A | C | 1B |
| R8228 | A | C | 1B |
| R8229 | A | C | 1B |
| R8230 | A | C | 1B |
| R8231 | A | C | 1B |
| R8232 | A | C | 1B |
| R8233 | A | C | 1B |
| R8234 | A | C | 1B |
| R8235 | A | C | 1B |
| R8238 | A | C | 1B |
| R8239 | A | C | 1B |
| R8240 | A | C | 2B |
| R8241 | A | C | 2B |
| R8242 | A | C | 2B |
| R8243 | A | C | 2B |
| R8244 | A | C | 2B |
| R8245 | A | C | 2B |
| R8246 | A | C | 2B |
| R8247 | A | C | 2B |
| R8248 | B | C | 2B |
| R8249 | A | C | 1B |
| R8401 | A | C | 2C |
| R8402 | A | C | 2C |
| R8403 | A | C | 2C |
| R8404 | A | C | 2C |
| R8405 | B | C | 2C |
| R8406 | B | C | 2C |
| R8407 | B | C | 2C |
| RA8001 | A | C | 1B |
| RA8002 | A | C | 1B |
| RA8003 | A | C | 2A |
| RA8004 | A | C | 2A |
| RA8201 | A | C | 1C |
| RA8202 | A | C | 1C |
| RA8203 | A | C | 1C |
| RA8204 | A | C | 1C |
| RA8222 | A | C | 1B |
| RA8223 | A | C | 1B |
| RA8224 | A | C | 1C |
| RA8225 | A | C | 1B |
| RA8401 | A | C | 2B |
| RA8402 | A | C | 2B |
| RA8403 | A | C | 2C |
| RA8404 | A | C | 2C |
| **OTHER** | | | |
| TL8001 | A | C | 2A |
| TL8002 | A | C | 2A |
| TL8003 | A | C | 2A |
| TL8004 | A | C | 2A |
| TL8005 | A | C | 2A |
| TL8006 | A | C | 1B |
| TL8007 | A | C | 1A |
| TL8008 | A | C | 1B |
| TL8009 | A | C | 2B |
| TL8010 | A | C | 1A |
| TL8011 | A | C | 1A |
| TL8012 | A | C | 2A |
| TL8013 | A | C | 2A |
| TL8014 | A | C | 2A |
| TL8015 | A | C | 1A |
| TL8016 | A | C | 2A |
| TL8017 | A | C | 2A |
| TL8018 | A | C | 3A |
| TL8019 | A | C | 3A |
| TL8020 | A | C | 2A |
| TL8022 | A | C | 1A |
| TL8023 | A | C | 1A |
| TL8024 | A | C | 2A |
| TL8025 | A | C | 2A |
| TL8026 | A | C | 2A |
| TL8201 | A | C | 1B |
| TL8202 | A | C | 2B |
| TL8401 | B | C | 2B |
| TL8402 | B | C | 2B |
| TL8404 | B | C | 2B |
| TL8405 | B | C | 2B |
| X8002 | B | C | 1A |
| X8401 | A | C | 2C |

## 4.28 PRE/MDA CIRCUIT BOARD

FOIL SIDE(B)



COMPONENT SIDE(A)

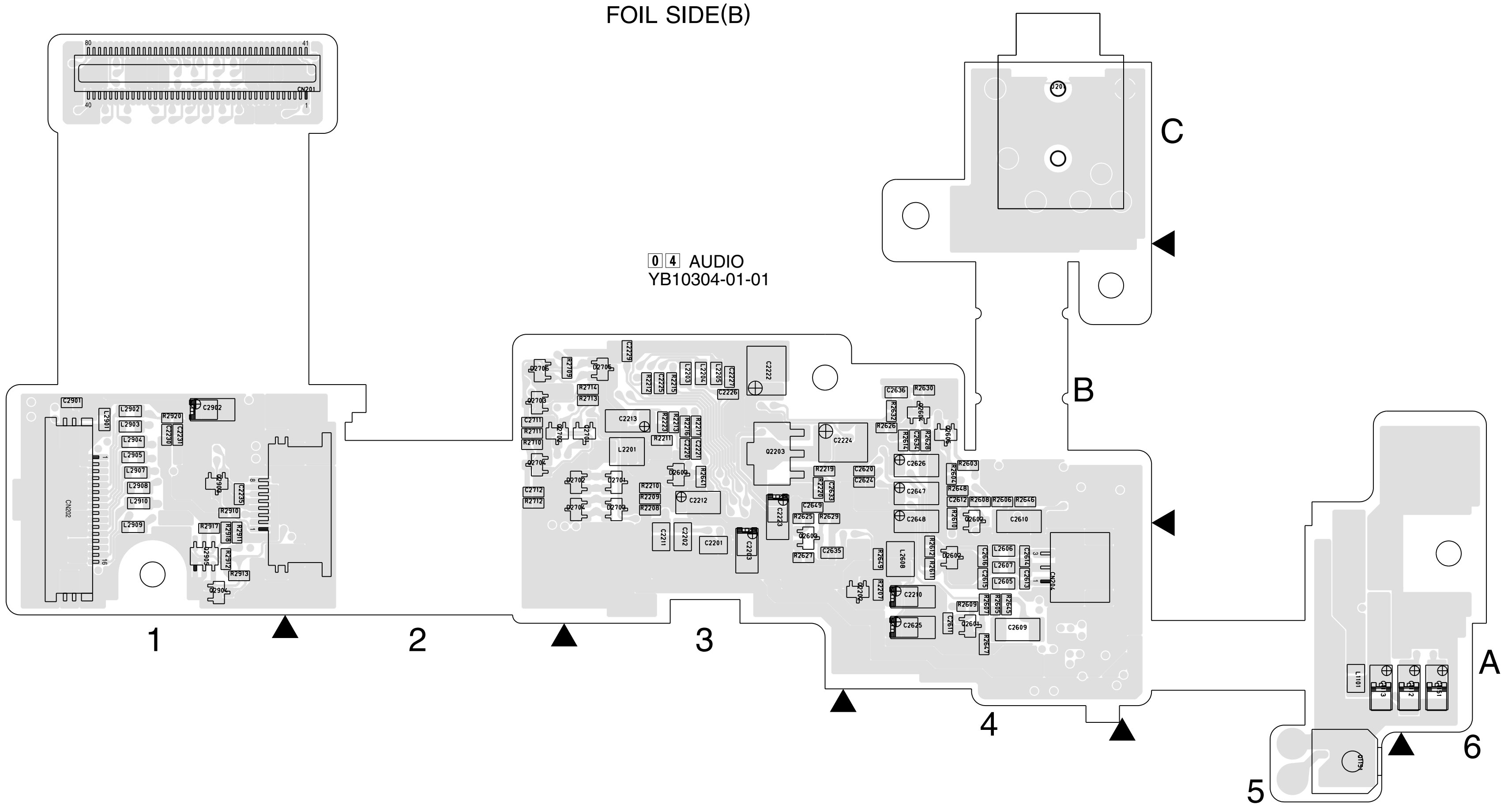


### COMPONENT PARTS LOCATION GUIDE ＜PRE/MDA＞

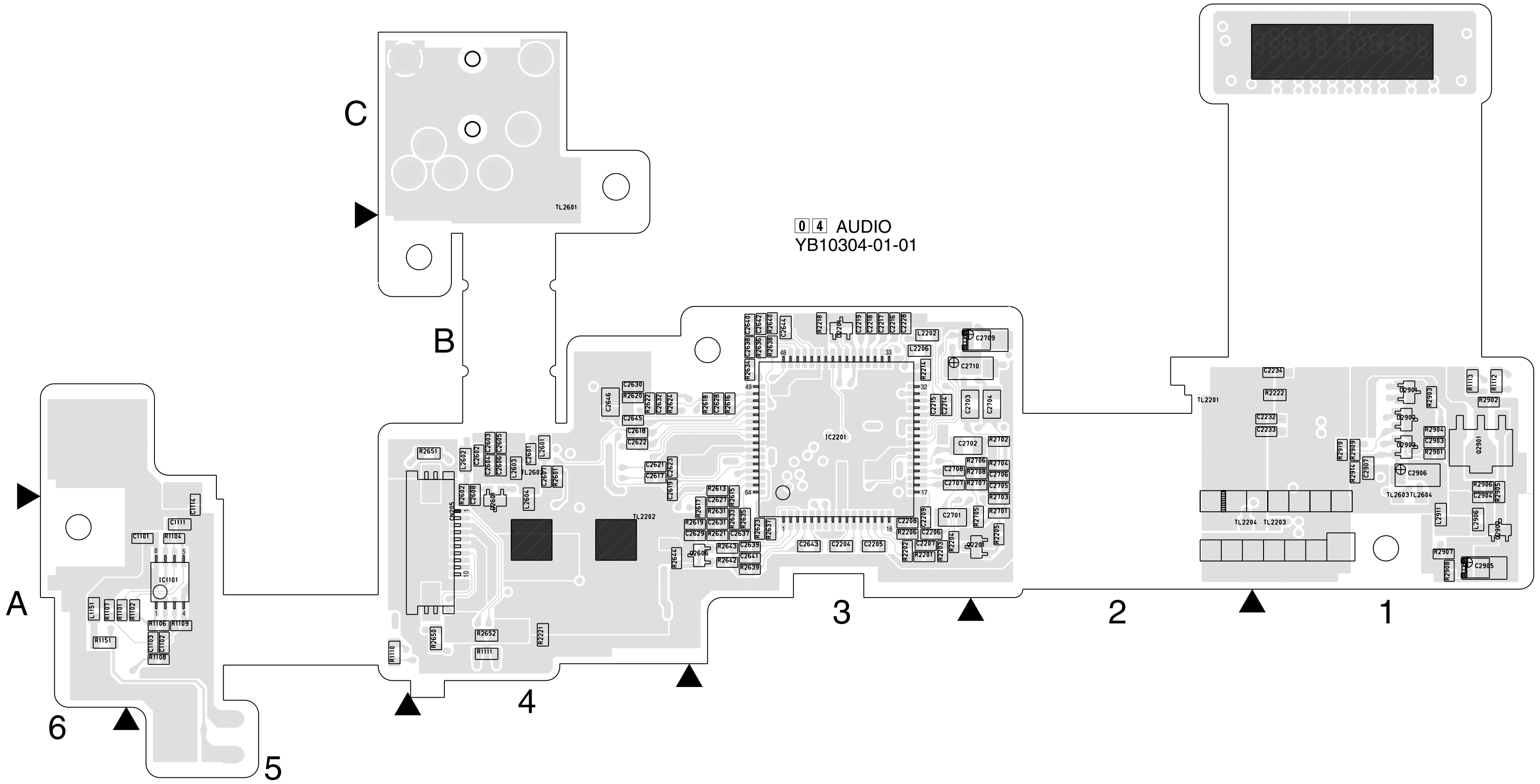
| REF.NO. | LOCATION | | |
|---|---|---|---|
| **CAPACITOR** | | | |
| C1601 | A | C | 1C |
| C1602 | A | C | 3D |
| C1603 | A | C | 3B |
| C1605 | A | C | 3B |
| C1606 | A | C | 3B |
| C1607 | A | C | 2B |
| C1610 | A | C | 3B |
| C1611 | A | C | 3B |
| C1612 | A | C | 3B |
| C1613 | A | C | 3B |
| C1614 | A | C | 1B |
| C1615 | A | C | 4B |
| C1616 | A | C | 4B |
| C1617 | A | C | 4B |
| C1618 | A | C | 4B |
| C1619 | A | C | 4B |
| C1620 | A | C | 4B |
| C1621 | A | C | 4B |
| C1622 | A | C | 4B |
| C1623 | A | C | 4B |
| C1624 | A | C | 4B |
| C1625 | A | C | 4B |
| C1626 | A | C | 3A |
| C1627 | A | C | 3B |
| C1628 | A | C | 4B |
| C1632 | A | C | 1B |
| C1633 | A | C | 1B |
| C1635 | A | C | 3A |
| C1638 | A | C | 3B |
| C1639 | A | C | 3B |
| C1640 | A | C | 3B |
| C1641 | A | C | 3B |
| C1642 | A | C | 4B |
| C1701 | A | C | 2B |
| C1702 | A | C | 2B |
| C3501 | A | C | 1C |
| C3502 | A | C | 1C |
| C3503 | A | C | 1C |
| C3504 | A | C | 1B |
| C3505 | A | C | 1C |
| C3506 | A | C | 1C |
| C3507 | A | C | 1C |
| C3508 | A | C | 1B |
| C3509 | A | C | 1C |
| C3510 | A | C | 1B |
| C3511 | A | C | 2C |
| C3512 | A | C | 2C |
| C3513 | A | C | 2B |
| C3514 | A | C | 1C |
| C3515 | A | C | 2C |
| C3516 | A | C | 1C |
| C3519 | A | C | 2C |
| C3520 | A | C | 2B |
| C3522 | A | C | 2C |
| C3523 | A | C | 2C |
| C3524 | A | C | 2C |
| C3525 | A | C | 2C |
| C3526 | A | C | 2C |
| C3527 | A | C | 2C |
| C3528 | A | C | 2C |
| C3529 | A | C | 2C |
| C3530 | A | C | 2C |
| C3531 | A | C | 2C |
| C3532 | A | C | 2C |
| C3533 | A | C | 1C |
| **CONNECTOR** | | | |
| CN401 | A | C | 2A |
| CN402 | A | C | 2D |
| CN403 | A | C | 1C |
| CN404 | A | C | 2D |
| CN405 | A | C | 3D |
| CN406 | A | C | 3B |
| CN407 | A | C | 1C |
| **DIODE** | | | |
| D1602 | A | C | 1B |
| D1603 | A | C | 1B |
| D1604 | A | C | 1B |
| **IC** | | | |
| IC1601 | A | C | 3B |
| IC1701 | A | C | 2B |
| IC1702 | A | C | 2B |
| IC3501 | A | C | 2C |
| IC3502 | A | C | 1C |
| **COIL** | | | |
| L1601 | A | C | 1B |
| L1602 | A | C | 1B |
| L3501 | A | C | 1B |
| L3502 | A | C | 1B |
| L3503 | A | C | 1B |
| L3504 | A | C | 2B |
| L3505 | A | C | 2B |
| **TRANSISTOR** | | | |
| Q1601 | A | C | 1B |
| **RESISTOR** | | | |
| R1601 | A | C | 3B |
| R1602 | A | C | 3B |
| R1603 | A | C | 3B |
| R1604 | A | C | 3B |
| R1605 | A | C | 3B |
| R1606 | A | C | 1B |
| R1609 | A | C | 3B |
| R1610 | A | C | 3D |
| R1611 | A | C | 3D |
| R1612 | A | C | 4B |
| R1613 | A | C | 4B |
| R1614 | A | C | 4B |
| R1615 | A | C | 4B |
| R1616 | A | C | 4B |
| R1617 | A | C | 4B |
| R1618 | A | C | 4B |
| R1619 | A | C | 3A |
| R1620 | A | C | 3B |
| R1621 | A | C | 3B |
| R1622 | A | C | 1B |
| R1624 | A | C | 3B |
| R1625 | A | C | 3B |
| R1626 | A | C | 3B |
| R1627 | A | C | 3B |
| R1628 | A | C | 3D |
| R1629 | A | C | 3B |
| R1630 | A | C | 2B |
| R1631 | A | C | 2B |
| R1632 | A | C | 2B |
| R1633 | A | C | 2B |
| R1634 | A | C | 1B |
| R1635 | A | C | 1B |
| R1636 | A | C | 1B |
| R1637 | A | C | 1B |
| R1638 | A | C | 4B |
| R1639 | A | C | 4B |
| R1640 | A | C | 4B |
| R1641 | A | C | 4B |
| R1642 | A | C | 3D |
| R1643 | A | C | 3B |
| R1644 | A | C | 4B |
| R1645 | A | C | 4B |
| R1646 | A | C | 3B |
| R1701 | A | C | 2B |
| R1702 | A | C | 2B |
| R1703 | A | C | 2C |
| R1704 | A | C | 2B |
| R1705 | A | C | 2C |
| R1706 | A | C | 2B |
| R1707 | A | C | 2B |
| R1708 | A | C | 2B |
| R1709 | A | C | 2B |
| R1710 | A | C | 2B |
| R1711 | A | C | 2B |
| R1712 | A | C | 2B |
| R1713 | A | C | 2B |
| R1714 | A | C | 2B |
| R1715 | A | C | 2B |
| R3501 | A | C | 1C |
| R3502 | A | C | 1C |
| R3503 | A | C | 1C |
| R3504 | A | C | 2D |
| R3505 | A | C | 2D |
| R3506 | A | C | 2D |
| R3507 | A | C | 2D |
| R3508 | A | C | 2C |
| R3509 | A | C | 1C |
| R3510 | A | C | 1C |
| R3511 | A | C | 1C |
| R3512 | A | C | 1C |
| R3513 | A | C | 1B |
| R3514 | A | C | 1B |
| R3515 | A | C | 2C |
| R3516 | A | C | 1B |
| R3517 | A | C | 1B |
| R3518 | A | C | 1C |
| **OTHER** | | | |
| PC04 | A | C | 1D |
| PC05 | A | C | 1D |
| TL1601 | A | C | 3A |
| TL1602 | A | C | 1B |
| TL1603 | A | C | 2B |
| TL1604 | A | C | 2B |
| TL1605 | A | C | 1B |
| TL1606 | A | C | 2B |
| TL1607 | A | C | 2B |
| TL1608 | A | C | 4B |
| TL1609 | A | C | 3B |
| TL1610 | A | C | 3B |
| TL1611 | A | C | 2B |
| TL1612 | A | C | 2B |
| TL1613 | A | C | 3B |
| TL1614 | A | C | 4D |
| TL1615 | A | C | 2D |
| TL1616 | A | C | 2B |
| TL1617 | A | C | 2B |
| TL1618 | A | C | 2B |
| TL1619 | A | C | 2B |

## 4.29 AUDIO CIRCUIT BOARD

FOIL SIDE(B)



COMPONENT SIDE(A)



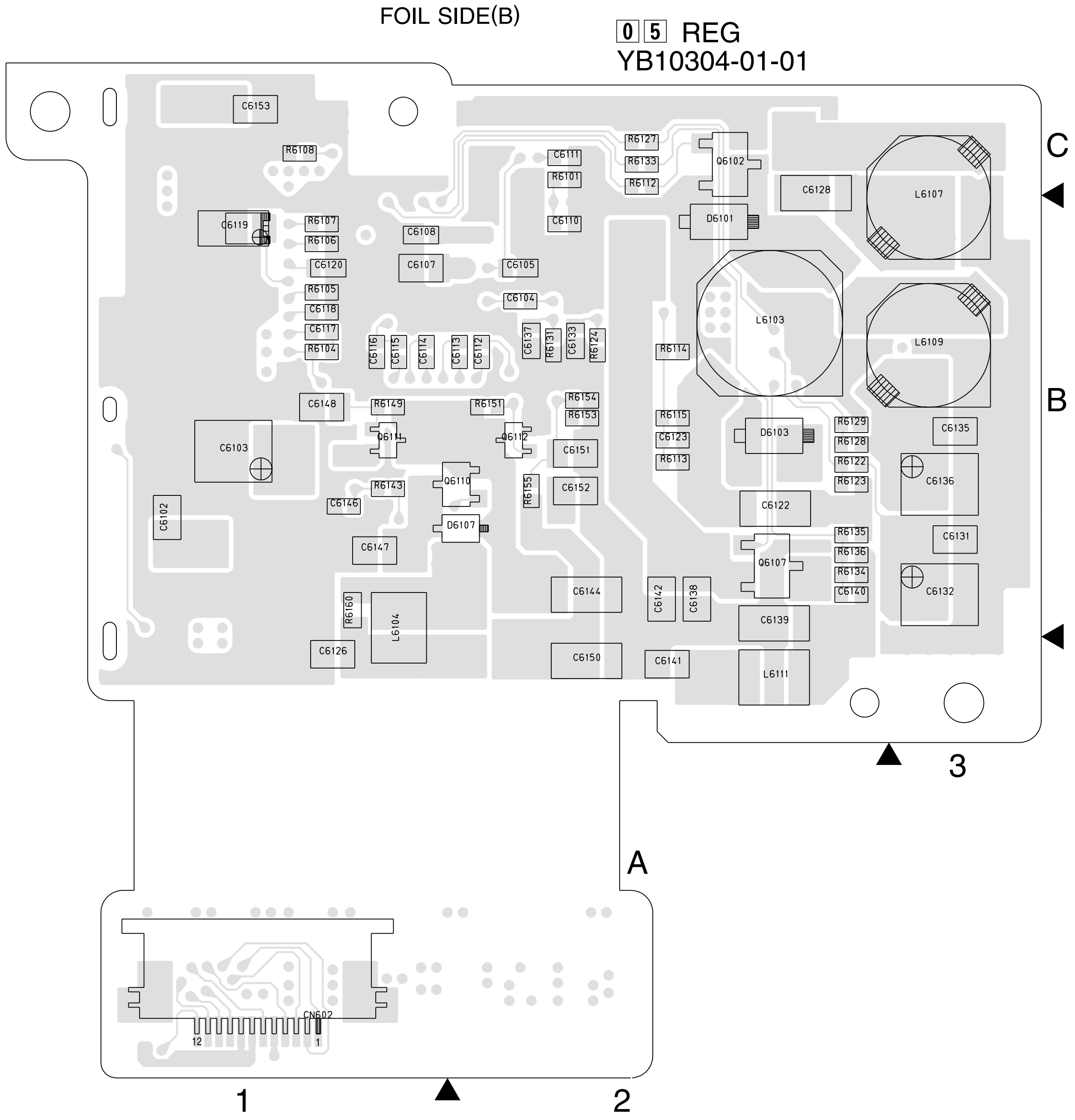
### COMPONENT PARTS LOCATION GUIDE ＜AUDIO＞

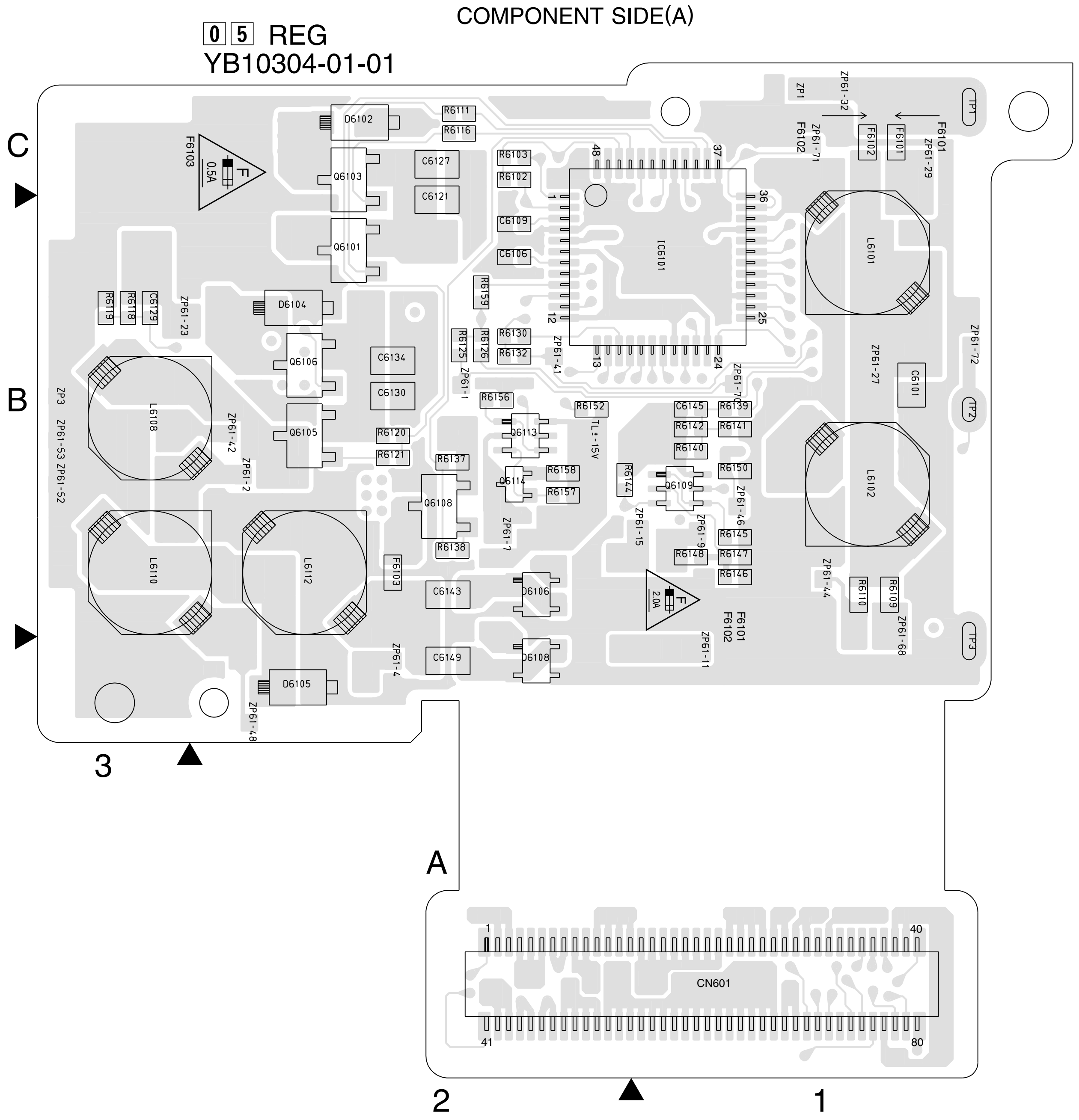
| REF.NO. | LOCATION | | |
|---|---|---|---|
| **CAPACITOR** | | | |
| C1101 | A | C | 5A |
| C1102 | A | C | 5A |
| C1103 | A | C | 5A |
| C1111 | A | C | 5A |
| C1112 | B | C | 6A |
| C1113 | B | C | 5A |
| C1114 | A | C | 5A |
| C1151 | B | C | 6A |
| C2201 | B | C | 3A |
| C2202 | B | C | 3A |
| C2203 | B | C | 3A |
| C2204 | A | C | 3A |
| C2205 | A | C | 3A |
| C2206 | A | C | 3A |
| C2207 | A | C | 3A |
| C2208 | A | C | 3A |
| C2209 | A | C | 3A |
| C2210 | B | C | 4A |
| C2211 | B | C | 3A |
| C2212 | B | C | 3B |
| C2213 | B | C | 3B |
| C2214 | A | C | 3B |
| C2215 | A | C | 3B |
| C2216 | A | C | 3B |
| C2217 | A | C | 3B |
| C2218 | A | C | 3B |
| C2219 | A | C | 3B |
| C2220 | B | C | 3B |
| C2221 | B | C | 3B |
| C2222 | B | C | 3B |
| C2223 | B | C | 3B |
| C2224 | B | C | 4B |
| C2225 | B | C | 3B |
| C2226 | B | C | 3B |
| C2227 | B | C | 3B |
| C2228 | A | C | 3B |
| C2229 | B | C | 3B |
| C2230 | B | C | 1B |
| C2231 | B | C | 1B |
| C2232 | A | C | 1B |
| C2233 | A | C | 1B |
| C2234 | A | C | 1B |
| C2235 | B | C | 1B |
| C2601 | A | C | 4B |
| C2602 | A | C | 4B |
| C2603 | A | C | 4B |
| C2604 | A | C | 4B |
| C2605 | A | C | 4B |
| C2606 | A | C | 4B |
| C2607 | A | C | 4B |
| C2608 | A | C | 4B |
| C2609 | B | C | 4A |
| C2610 | B | C | 4B |
| C2611 | B | C | 4A |
| C2612 | B | C | 4B |
| C2613 | B | C | 4A |
| C2614 | B | C | 4A |
| C2615 | B | C | 4A |
| C2616 | B | C | 4A |
| C2617 | A | C | 4B |
| C2618 | A | C | 4B |
| C2619 | A | C | 4B |
| C2620 | B | C | 4B |
| C2621 | A | C | 4B |
| C2622 | A | C | 4B |
| C2623 | A | C | 4B |
| C2624 | B | C | 4B |
| C2625 | B | C | 4A |
| C2626 | B | C | 4B |
| C2627 | A | C | 3A |
| C2628 | A | C | 3B |
| C2629 | A | C | 3A |
| C2630 | A | C | 4B |
| C2631 | A | C | 3A |
| C2632 | A | C | 4B |
| C2633 | B | C | 3B |
| C2634 | B | C | 4B |
| C2635 | B | C | 3A |
| C2636 | B | C | 4B |
| C2637 | A | C | 3A |
| C2638 | A | C | 3B |
| C2639 | A | C | 3A |
| C2640 | A | C | 3B |
| C2641 | A | C | 3A |
| C2642 | A | C | 3B |
| C2643 | A | C | 3A |
| C2644 | A | C | 3B |
| C2645 | A | C | 4B |
| C2646 | A | C | 4B |
| C2647 | B | C | 4B |
| C2648 | B | C | 4B |
| C2649 | B | C | 3B |
| C2701 | A | C | 3A |
| C2702 | A | C | 3B |
| C2703 | A | C | 3B |
| C2704 | A | C | 2B |
| C2705 | A | C | 2B |
| C2706 | A | C | 2B |
| C2707 | A | C | 3B |
| C2708 | A | C | 3B |
| C2709 | A | C | 2B |
| C2710 | A | C | 3B |
| C2711 | B | C | 2B |
| C2712 | B | C | 2B |
| C2901 | B | C | 1B |
| C2902 | B | C | 1B |
| C2903 | A | C | 1B |
| C2904 | A | C | 1A |
| C2905 | A | C | 1A |
| C2906 | A | C | 1B |
| C2907 | A | C | 1B |
| **CONNECTOR** | | | |
| CN201 | B | C | 2C |
| CN202 | B | C | 1B |
| CN203 | B | C | 1A |
| CN204 | B | C | 4A |
| CN205 | A | C | 4A |
| **DIODE** | | | |
| D2201 | A | C | 3B |
| D2601 | A | C | 4A |
| D2602 | B | C | 4A |
| D2603 | B | C | 3B |
| D2701 | B | C | 3B |
| D2702 | B | C | 3B |
| D2703 | B | C | 3B |
| D2704 | B | C | 3B |
| D2705 | B | C | 3B |
| D2706 | B | C | 2B |
| D2901 | A | C | 1B |
| D2902 | A | C | 1B |
| D2903 | A | C | 1B |
| **IC** | | | |
| IC1101 | A | C | 5A |
| IC2201 | A | C | 3B |
| **COIL** | | | |
| L1101 | B | C | 5A |
| L1151 | A | C | 6A |
| L2201 | B | C | 3B |
| L2202 | A | C | 3B |
| L2203 | B | C | 3B |
| L2204 | B | C | 3B |
| L2205 | B | C | 3B |
| L2206 | A | C | 3B |
| L2601 | A | C | 4B |
| L2602 | A | C | 4B |
| L2603 | A | C | 4B |
| L2604 | A | C | 4A |
| L2605 | B | C | 4A |
| L2606 | B | C | 4A |
| L2607 | B | C | 4A |
| L2608 | B | C | 4A |
| L2901 | B | C | 1B |
| L2902 | B | C | 1B |
| L2903 | B | C | 1B |
| L2904 | B | C | 1B |
| L2905 | B | C | 1B |
| L2906 | A | C | 1A |
| L2907 | B | C | 1B |
| L2908 | B | C | 1B |
| L2909 | B | C | 1A |
| L2910 | B | C | 1B |
| L2911 | A | C | 1A |
| **TRANSISTOR** | | | |
| Q1151 | A | D | 5A |
| Q2201 | A | C | 2A |
| Q2202 | B | C | 4A |
| Q2203 | B | C | 3B |
| Q2601 | B | C | 4A |
| Q2602 | B | C | 4B |
| Q2603 | B | C | 3A |
| Q2604 | B | C | 4B |
| Q2605 | B | C | 4B |
| Q2606 | A | C | 3A |
| Q2701 | B | C | 3B |
| Q2702 | B | C | 2B |
| Q2703 | B | C | 2B |
| Q2704 | B | C | 2B |
| Q2901 | A | C | 1B |
| Q2902 | A | C | 1A |
| Q2903 | B | C | 1B |
| Q2904 | B | C | 1A |
| Q2905 | B | C | 1A |
| **RESISTOR** | | | |
| R1101 | A | C | 6A |
| R1102 | A | C | 5A |
| R1104 | A | C | 5A |
| R1106 | A | C | 5A |
| R1107 | A | C | 6A |
| R1108 | A | C | 5A |
| R1109 | A | C | 5A |
| R1110 | A | C | 5A |
| R1111 | A | C | 4A |
| R1112 | A | C | 1B |
| R1113 | A | C | 1B |
| R1151 | A | C | 6A |
| R2201 | A | C | 3A |
| R2202 | A | C | 3A |
| R2203 | A | C | 3A |
| R2204 | A | C | 3A |
| R2205 | A | C | 2A |
| R2206 | A | C | 3A |
| R2207 | B | C | 4A |
| R2208 | B | C | 3B |
| R2209 | B | C | 3B |
| R2210 | B | C | 3B |
| R2211 | B | C | 3B |
| R2212 | B | C | 3B |
| R2213 | B | C | 3B |
| R2214 | A | C | 3B |
| R2215 | B | C | 3B |
| R2216 | B | C | 3B |
| R2217 | B | C | 3B |
| R2218 | A | C | 3B |
| R2219 | B | C | 3B |
| R2220 | B | C | 3B |
| R2221 | A | C | 4A |
| R2222 | A | C | 1B |
| R2223 | B | C | 3B |
| R2601 | A | C | 4B |
| R2602 | A | C | 4B |
| R2603 | B | C | 4B |
| R2604 | B | C | 4B |
| R2605 | B | C | 4A |
| R2606 | B | C | 4B |
| R2607 | B | C | 4A |
| R2608 | B | C | 4B |
| R2609 | B | C | 4A |
| R2610 | B | C | 4B |
| R2611 | B | C | 4A |
| R2612 | B | C | 4A |
| R2613 | A | C | 3B |
| R2614 | B | C | 4B |
| R2615 | A | C | 3B |
| R2616 | A | C | 3B |
| R2617 | A | C | 3A |
| R2618 | A | C | 3B |
| R2619 | A | C | 3A |
| R2620 | A | C | 4B |
| R2621 | A | C | 3A |
| R2622 | A | C | 4B |
| R2623 | A | C | 3A |
| R2624 | A | C | 4B |
| R2625 | B | C | 3B |
| R2626 | B | C | 4B |
| R2627 | B | C | 3A |
| R2628 | B | C | 4B |
| R2629 | B | C | 3B |
| R2630 | B | C | 4B |
| R2631 | A | C | 3A |
| R2632 | B | C | 4B |
| R2633 | A | C | 3A |
| R2634 | A | C | 3B |
| R2635 | A | C | 3A |
| R2636 | A | C | 3B |
| R2637 | A | C | 3A |
| R2638 | A | C | 3B |
| R2639 | A | C | 3A |
| R2640 | A | C | 3B |
| R2641 | B | C | 3B |
| R2642 | A | C | 3A |
| R2643 | A | C | 3A |
| R2644 | A | C | 4A |
| R2645 | B | C | 4A |
| R2646 | B | C | 4B |
| R2647 | B | C | 4A |
| R2648 | B | C | 4B |
| R2649 | B | C | 4A |
| R2650 | A | C | 4A |
| R2651 | A | C | 4B |
| R2652 | A | C | 4A |
| R2701 | A | C | 2A |
| R2702 | A | C | 2B |
| R2703 | A | C | 2A |
| R2704 | A | C | 2B |
| R2705 | A | C | 2A |
| R2706 | A | C | 2B |
| R2707 | A | C | 2B |
| R2708 | A | C | 2B |
| R2709 | B | C | 3B |
| R2710 | B | C | 2B |
| R2711 | B | C | 2B |
| R2712 | B | C | 2B |
| R2713 | B | C | 3B |
| R2714 | B | C | 3B |
| R2901 | A | C | 1B |
| R2902 | A | C | 1B |
| R2903 | A | C | 1B |
| R2904 | A | C | 1B |
| R2905 | A | C | 1B |
| R2906 | A | C | 1B |
| R2907 | A | C | 1A |
| R2908 | A | C | 1A |
| R2909 | A | C | 1B |
| R2910 | B | C | 1B |
| R2911 | B | C | 1A |
| R2912 | B | C | 1A |
| R2913 | B | C | 1A |
| R2914 | A | C | 1B |
| R2917 | B | C | 1A |
| R2918 | B | C | 1A |
| R2919 | A | C | 1B |
| R2920 | B | C | 1B |
| **OTHER** | | | |
| J201 | A | D | 4C |
| TL2201 | A | C | 2B |
| TL2202 | A | C | 4A |
| TL2203 | A | C | 1A |
| TL2204 | A | C | 2A |
| TL2601 | A | C | 4C |
| TL2602 | A | C | 4B |
| TL2603 | A | C | 1A |
| TL2604 | A | C | 1A |

## 4.30 REG CIRCUIT BOARD

• CAUTION:
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD ,REPLACE ONLY WITH SAME TYPE AND RATED FUSE(S).

• ATTENTION:
POUR UNE PROTECTION PERMANENTE CONTRE LES RISQUE D'INCENDE, REMPLACER LES FUSIBLES PAR UN AUTRE DE MEME TYPE ET DE MEME TENSION.


FOIL SIDE(B)
05 REG
YB10304-01-01
C
B
A
1
2
3
C6153
R6108
C6119
R6107
R6106
C6120
R6105
C6118
C6117
R6104
C6108
C6107
C6105
C6104
C6111
R6101
C6110
R6127
R6133
R6112
Q6102
D6101
C6128
L6107
L6103
L6109
C6116
C6115
C6114
C6113
C6112
C6137
R6131
C6133
R6124
R6114
C6148
R6149
R6151
Q6111
Q6112
R6154
R6153
C6151
C6152
R6115
R6123
R6113
D6103
R6129
R6128
R6122
R6123
C6135
C6136
C6103
R6143
Q6110
D6107
R6155
C6122
C6146
C6102
C6147
Q6107
R6135
R6136
R6134
C6140
C6131
C6132
C6144
C6142
C6138
C6139
R6160
L6104
C6126
C6150
C6141
L6111
CN602
12
1


COMPONENT SIDE(A)
05 REG
YB10304-01-01
C
B
A
1
2
3
F6103
F
0.5A
D6102
R6111
R6116
Q6103
C6127
C6121
R6103
R6102
Q6101
C6109
C6106
IC6101
48
37
1
36
12
25
13
24
L6101
L6102
L6108
L6110
L6112
R6119
R6118
C6129
ZP61-23
D6104
Q6106
C6134
C6130
Q6105
R6120
R6121
R6159
R6125
R6126
R6130
R6132
ZP61-41
ZP61-1
R6156
Q6113
R6152
TL-15V
R6145
R6139
R6142
R6141
R6140
R6150
Q6109
R6137
Q6114
R6158
R6157
Q6108
R6138
F6103
C6143
D6106
F
2.0A
F6101
F6102
C6149
D6108
D6105
ZP61-48
ZP3
ZP61-53
ZP61-52
ZP61-42
ZP61-2
ZP61-7
ZP61-4
ZP61-15
ZP61-9
ZP61-46
ZP61-11
ZP61-44
ZP61-68
ZP61-27
ZP61-72
ZP61-29
ZP61-32
ZP61-71
ZP1
F6101
F6102
C6101
R6148
R6147
R6146
R6110
R6109
TP1
TP2
TP3
CN601
1
40
41
80

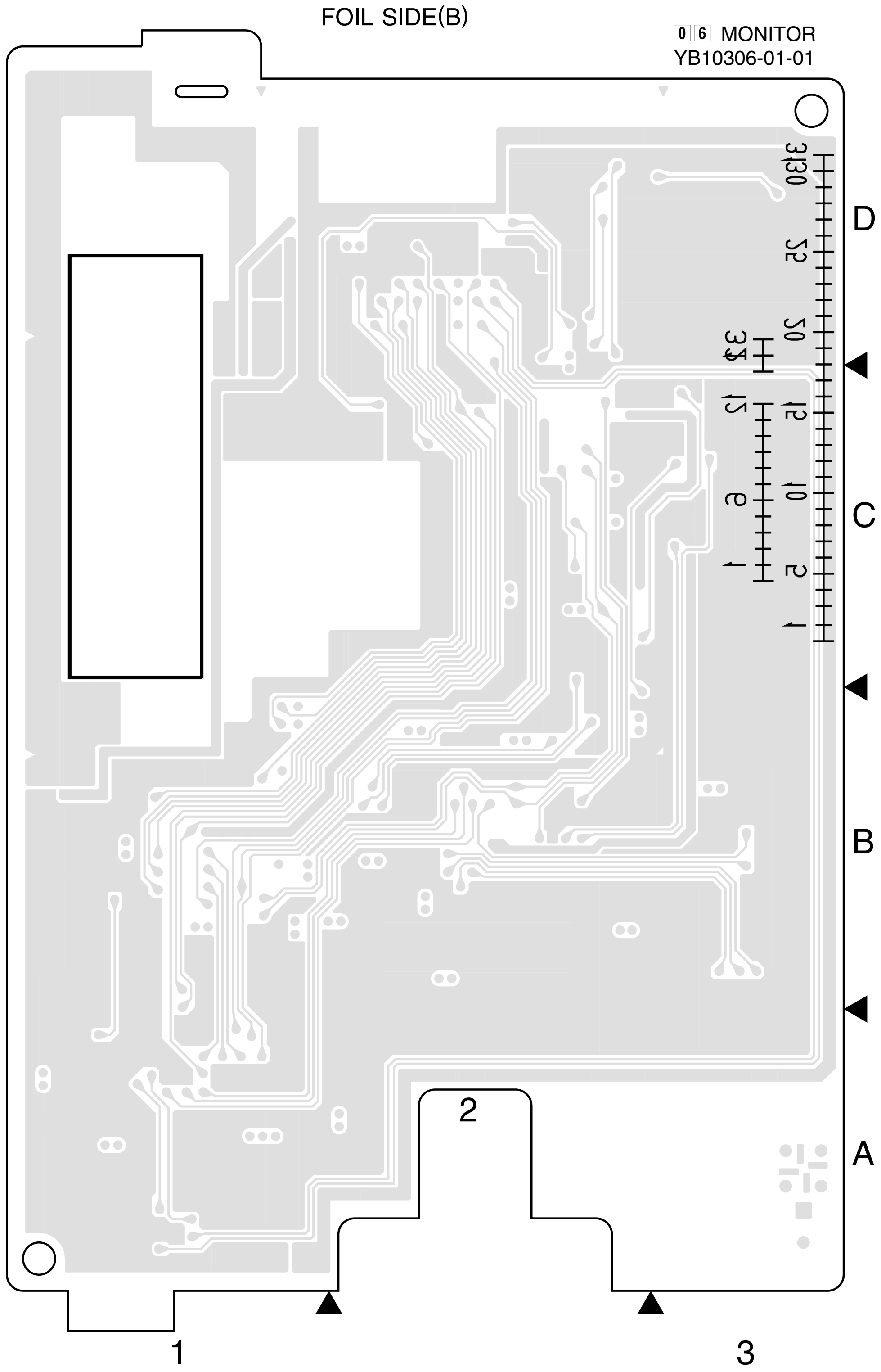
### COMPONENT PARTS LOCATION GUIDE ＜REG＞

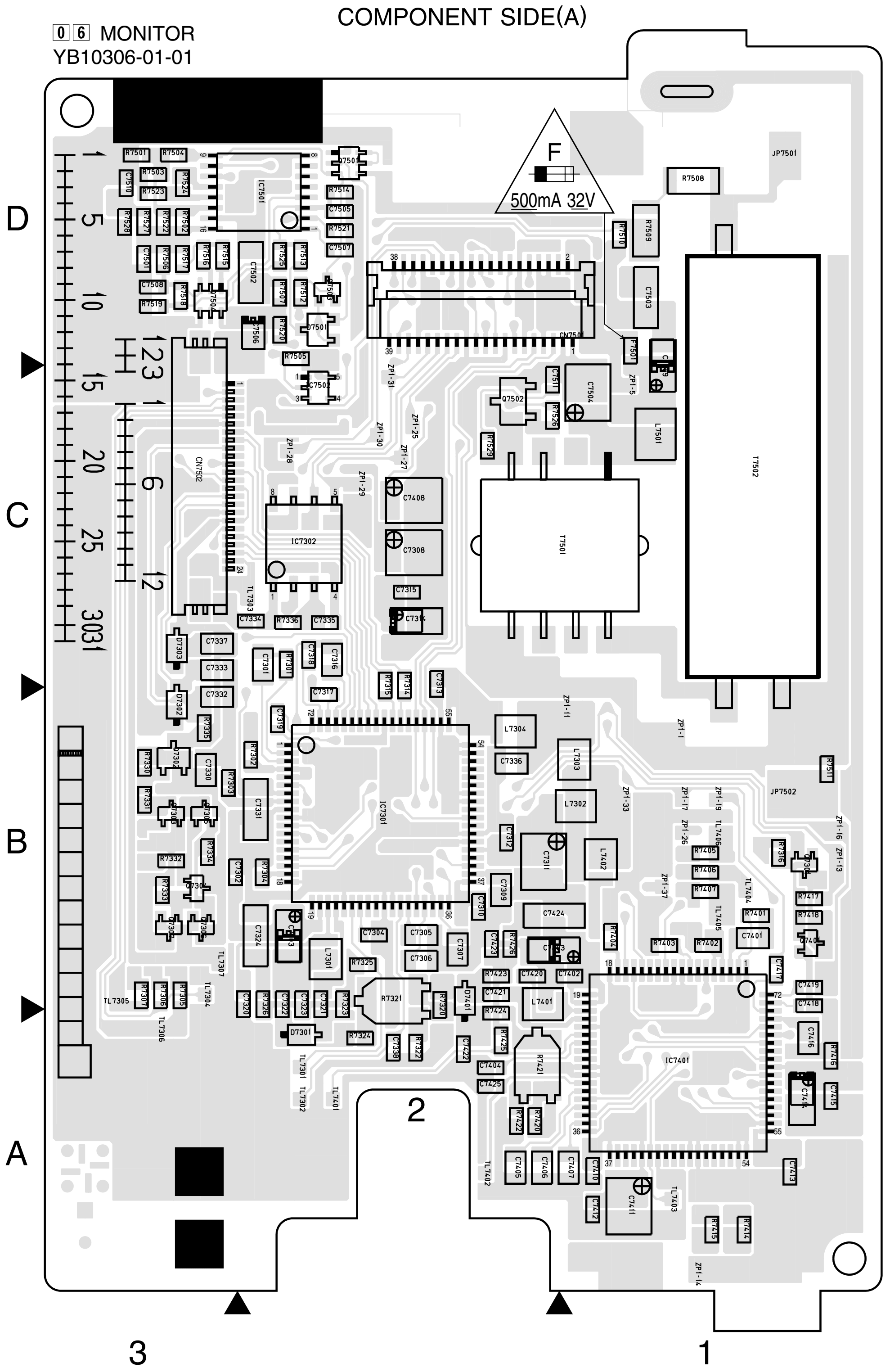
| REF.NO. | LOCATION | | |
|---|---|---|---|
| **CAPACITOR** | | | |
| C2205 | A | C | 4A |
| C2206 | A | C | 4A |
| C2207 | A | C | 4A |
| C2208 | A | C | 4A |
| C2209 | A | C | 4A |
| C2211 | B | C | 4A |
| C2213 | B | C | 4A |
| C2214 | A | C | 4A |
| C2215 | A | C | 4A |
| C2216 | A | C | 5A |
| C2217 | A | C | 5A |
| C2218 | A | C | 5A |
| C2225 | B | C | 4A |
| C2228 | A | C | 5A |
| C2229 | B | C | 5A |
| C2230 | B | C | 4B |
| C2231 | B | C | 4B |
| C2232 | A | C | 4B |
| C2233 | A | C | 4B |
| C2234 | A | C | 4B |
| C2235 | B | C | 4B |
| C2701 | A | C | 4A |
| C2702 | A | C | 4A |
| C2703 | A | C | 4A |
| C2704 | A | C | 4A |
| C2705 | A | C | 4A |
| C2706 | A | C | 4A |
| C2707 | A | C | 4A |
| C2708 | A | C | 4A |
| C2709 | A | C | 4A |
| C2710 | A | C | 4A |
| C2711 | B | C | 4A |
| C2712 | B | C | 4A |
| C2901 | B | C | 4C |
| C2902 | B | C | 4B |
| C2903 | A | C | 4C |
| C2904 | A | C | 4C |
| C2905 | A | C | 4C |
| C2906 | A | C | 4B |
| C2907 | A | C | 4B |
| C6101 | A | C | 1B |
| C6102 | B | C | 1B |
| C6103 | B | C | 1B |
| C6104 | B | C | 2B |
| C6105 | B | C | 2B |
| C6106 | A | C | 2B |
| C6107 | B | C | 1B |
| C6108 | B | C | 1B |
| C6109 | A | C | 2B |
| C6110 | B | C | 2B |
| C6111 | B | C | 2C |
| C6112 | B | C | 2B |
| C6113 | B | C | 2B |
| C6114 | B | C | 1B |
| C6115 | B | C | 1B |
| C6116 | B | C | 1B |
| C6117 | B | C | 1B |
| C6118 | B | C | 1B |
| C6119 | B | C | 1B |
| C6120 | B | C | 1B |
| C6121 | A | C | 2B |
| C6122 | B | C | 2B |
| C6123 | B | C | 2B |
| C6126 | B | C | 1A |
| C6127 | A | C | 2C |
| C6128 | B | C | 2C |
| C6129 | A | C | 3B |
| C6130 | A | C | 2B |
| C6131 | B | C | 3B |
| C6132 | B | C | 3B |
| C6133 | B | C | 2B |
| C6134 | A | C | 2B |
| C6135 | B | C | 3B |
| C6136 | B | C | 3B |
| C6137 | B | C | 2B |
| C6138 | B | C | 2B |
| C6139 | B | C | 2B |
| C6140 | B | C | 2B |
| C6141 | B | C | 2A |
| C6142 | B | C | 2B |
| C6143 | A | C | 2B |
| C6144 | B | C | 2B |
| C6145 | A | C | 1B |
| C6146 | B | C | 1B |
| C6147 | B | C | 1B |
| C6148 | B | C | 1B |
| C6149 | A | C | 2A |
| C6150 | B | C | 2A |
| C6151 | B | C | 2B |
| C6152 | B | C | 2B |
| C6153 | B | C | 1C |
| **CONNECTOR** | | | |
| CN202 | B | C | 4C |
| CN203 | B | C | 4B |
| CN601 | A | C | 2A |
| CN602 | B | C | 1A |
| **DIODE** | | | |
| D2701 | B | C | 4A |
| D2702 | B | C | 4A |
| D2703 | B | C | 4A |
| D2704 | B | C | 4A |
| D2705 | B | C | 4A |
| D2706 | B | C | 4A |
| D2901 | A | C | 4B |
| D2902 | A | C | 4B |
| D2903 | A | C | 4B |
| D6101 | B | C | 2B |
| D6102 | A | C | 2C |
| D6103 | B | C | 2B |
| D6104 | A | C | 2B |
| D6105 | A | C | 2A |
| D6106 | A | C | 2B |
| D6107 | B | C | 2B |
| D6108 | A | C | 2A |
| **FUSE** | | | |
| F6101 | A | C | 1C |
| F6102 | A | C | 1C |
| F6103 | A | C | 2B |
| **IC** | | | |
| IC6101 | A | C | 1B |
| **COIL** | | | |
| L2201 | B | C | 4A |
| L2202 | A | C | 4A |
| L2206 | A | C | 4A |
| L2901 | B | C | 4C |
| L2902 | B | C | 4B |
| L2903 | B | C | 4B |
| L2904 | B | C | 4B |
| L2905 | B | C | 4B |
| L2906 | A | C | 4C |
| L2907 | B | C | 4B |
| L2908 | B | C | 4B |
| L2909 | B | C | 4B |
| L2910 | B | C | 4B |
| L2911 | A | C | 4C |
| L6101 | A | C | 1B |
| L6102 | A | C | 1B |
| L6103 | B | C | 2B |
| L6104 | B | C | 1B |
| L6107 | B | C | 3B |
| L6108 | A | C | 3B |
| L6109 | B | C | 3B |
| L6110 | A | C | 3B |
| L6111 | B | C | 2A |
| L6112 | A | C | 2B |
| **TRANSISTOR** | | | |
| Q2201 | A | C | 4A |
| Q2701 | B | C | 4A |
| Q2702 | B | C | 4A |
| Q2703 | B | C | 4A |
| Q2704 | B | C | 4A |
| Q2901 | A | C | 4C |
| Q2902 | A | C | 4C |
| Q2903 | B | C | 4B |
| Q2904 | B | C | 4B |
| Q2905 | B | C | 4B |
| Q6101 | A | C | 2B |
| Q6102 | B | C | 2C |
| Q6103 | A | C | 2C |
| Q6105 | A | C | 2B |
| Q6106 | A | C | 2B |
| Q6107 | B | C | 2B |
| Q6108 | A | C | 2B |
| Q6109 | A | C | 1B |
| Q6110 | B | C | 2B |
| Q6111 | B | C | 1B |
| Q6112 | B | C | 2B |
| Q6113 | A | C | 2B |
| Q6114 | A | C | 2B |
| **RESISTOR** | | | |
| R1112 | A | C | 4C |
| R1113 | A | C | 4C |
| R2201 | A | C | 4A |
| R2202 | A | C | 4A |
| R2203 | A | C | 4A |
| R2204 | A | C | 4A |
| R2205 | A | C | 4A |
| R2206 | A | C | 4A |
| R2208 | B | C | 4A |
| R2209 | B | C | 4A |
| R2210 | B | C | 4A |
| R2211 | B | C | 4A |
| R2212 | B | C | 4A |
| R2214 | A | C | 4A |
| R2222 | A | C | 4B |
| R2223 | B | C | 4A |
| R2701 | A | C | 4A |
| R2702 | A | C | 4A |
| R2703 | A | C | 4A |
| R2704 | A | C | 4A |
| R2705 | A | C | 4A |
| R2706 | A | C | 4A |
| R2707 | A | C | 4A |
| R2708 | A | C | 4A |
| R2709 | B | C | 4A |
| R2710 | B | C | 4A |
| R2711 | B | C | 4A |
| R2712 | B | C | 4A |
| R2713 | B | C | 4A |
| R2714 | B | C | 4A |
| R2901 | A | C | 4C |
| R2902 | A | C | 4C |
| R2903 | A | C | 4B |
| R2904 | A | C | 4C |
| R2905 | A | C | 4C |
| R2906 | A | C | 4C |
| R2907 | A | C | 4C |
| R2908 | A | C | 4C |
| R2909 | A | C | 4B |
| R2910 | B | C | 4B |
| R2911 | B | C | 4B |
| R2912 | B | C | 4B |
| R2913 | B | C | 4B |
| R2914 | A | C | 4B |
| R2917 | B | C | 4B |
| R2918 | B | C | 4B |
| R2919 | A | C | 4B |
| R2920 | B | C | 4B |
| R6101 | B | C | 2C |
| R6102 | A | C | 2C |
| R6103 | A | C | 2C |
| R6104 | B | C | 1B |
| R6105 | B | C | 1B |
| R6106 | B | C | 1B |
| R6107 | B | C | 1B |
| R6108 | B | C | 1C |
| R6109 | A | C | 1B |
| R6110 | A | C | 1B |
| R6111 | A | C | 2C |
| R6112 | B | C | 2C |
| R6113 | B | C | 2B |
| R6114 | B | C | 2B |
| R6115 | B | C | 2B |
| R6116 | A | C | 2C |
| R6118 | A | C | 3B |
| R6119 | A | C | 3B |
| R6120 | A | C | 2B |
| R6121 | A | C | 2B |
| R6122 | B | C | 2B |
| R6123 | B | C | 2B |
| R6124 | B | C | 2B |
| R6125 | A | C | 2B |
| R6126 | A | C | 2B |
| R6127 | B | C | 2C |
| R6128 | B | C | 2B |
| R6129 | B | C | 2B |
| R6130 | A | C | 2B |
| R6131 | B | C | 2B |
| R6132 | A | C | 2B |
| R6133 | B | C | 2C |
| R6134 | B | C | 2B |
| R6135 | B | C | 2B |
| R6136 | B | C | 2B |
| R6137 | A | C | 2B |
| R6138 | A | C | 2B |
| R6139 | A | C | 1B |
| R6140 | A | C | 1B |
| R6141 | A | C | 1B |
| R6142 | A | C | 1B |
| R6143 | B | C | 1B |
| R6144 | A | C | 2B |
| R6145 | A | C | 1B |
| R6146 | A | C | 1B |
| R6147 | A | C | 1B |
| R6148 | A | C | 1B |
| R6149 | B | C | 1B |
| R6150 | A | C | 1B |
| R6151 | B | C | 2B |
| R6152 | A | C | 2B |
| R6153 | B | C | 2B |
| R6154 | B | C | 2B |
| R6155 | B | C | 2B |
| R6156 | A | C | 2B |
| R6157 | A | C | 2B |
| R6158 | A | C | 2B |
| R6159 | A | C | 2B |
| R6160 | B | C | 1B |
| **OTHER** | | | |
| J201 | A | D | 5A |
| TL2201 | A | C | 4B |
| TL2203 | A | C | 4B |
| TL2204 | A | C | 4B |
| TL2603 | A | C | 4B |
| TL2604 | A | C | 4B |
| TL_-15V | A | C | 2B |
| TP1 | A | C | 1C |
| TP2 | A | C | 1B |
| TP3 | A | C | 1A |
| ZP1 | A | C | 1C |
| ZP3 | A | C | 3B |
| ZP61-1 | A | C | 2B |
| ZP61-2 | A | C | 2B |
| ZP61-4 | A | C | 2A |
| ZP61-7 | A | C | 2B |
| ZP61-9 | A | C | 1B |
| ZP61-11 | A | C | 1A |
| ZP61-15 | A | C | 1B |
| ZP61-23 | A | C | 3B |
| ZP61-27 | A | C | 1B |
| ZP61-29 | A | C | 1C |
| ZP61-32 | A | C | 1C |
| ZP61-41 | A | C | 2B |
| ZP61-42 | A | C | 2B |
| ZP61-44 | A | C | 1B |
| ZP61-46 | A | C | 1B |
| ZP61-48 | A | C | 2A |
| ZP61-52 | A | C | 3B |
| ZP61-53 | A | C | 3B |
| ZP61-68 | A | C | 1B |
| ZP61-70 | A | C | 1B |
| ZP61-71 | A | C | 1C |
| ZP61-72 | A | C | 1B |

## 4.31 MONITOR CIRCUIT BOARD

• CAUTION:
FOR CONTINUED PROTECTION AGAINST
FIRE HAZARD ,REPLACE ONLY WITH SAME
TYPE AND RATED FUSE(S).

• ATTENTION:
POUR UNE PROTECTION PERMANENTE
CONTRE LES RISQUE D'INCENDE,
REMPLACER LES FUSIBLES PAR UN AUTRE
DE MEME TYPE ET DE MEME TENSION.



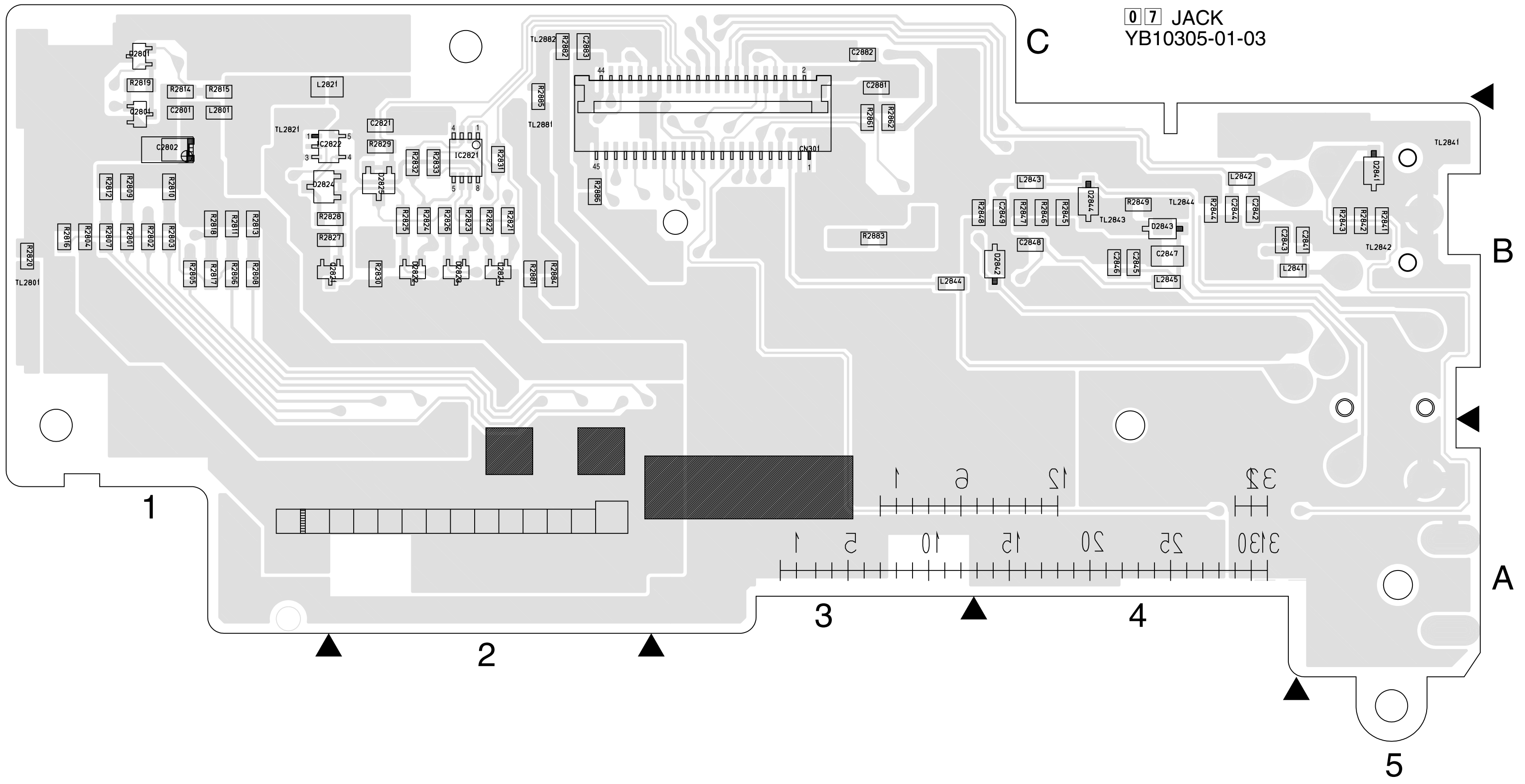


## COMPONENT PARTS LOCATION GUIDE ＜MONITOR＞

| REF.NO. | LOCATION | | |
|---|---|---|---|
| **CAPACITOR** | | | |
| C7301 | A | C | 2C |
| C7302 | A | C | 3B |
| C7303 | A | C | 2B |
| C7304 | A | C | 2B |
| C7305 | A | C | 2B |
| C7306 | A | C | 2B |
| C7307 | A | C | 2B |
| C7308 | A | C | 2C |
| C7309 | A | C | 2B |
| C7310 | A | C | 2B |
| C7311 | A | C | 2B |
| C7312 | A | C | 2B |
| C7313 | A | C | 2C |
| C7314 | A | C | 2C |
| C7315 | A | C | 2C |
| C7316 | A | C | 2C |
| C7317 | A | C | 2B |
| C7318 | A | C | 2C |
| C7319 | A | C | 2B |
| C7320 | A | C | 3B |
| C7321 | A | C | 2B |
| C7322 | A | C | 2B |
| C7323 | A | C | 2B |
| C7324 | A | C | 2B |
| C7330 | A | C | 3B |
| C7331 | A | C | 2B |
| C7332 | A | C | 3B |
| C7333 | A | C | 3C |
| C7334 | A | C | 3C |
| C7335 | A | C | 2C |
| C7336 | A | C | 2B |
| C7337 | A | C | 3C |
| C7338 | A | C | 2A |
| C7401 | A | C | 1B |
| C7402 | A | C | 2B |
| C7403 | A | C | 2B |
| C7404 | A | C | 2A |
| C7405 | A | C | 2A |
| C7406 | A | C | 2A |
| C7407 | A | C | 2A |
| C7408 | A | C | 2C |
| C7410 | A | C | 1A |
| C7411 | A | C | 1A |
| C7412 | A | C | 1A |
| C7413 | A | C | 1A |
| C7414 | A | C | 1A |
| C7415 | A | C | 1A |
| C7416 | A | C | 1A |
| C7417 | A | C | 1B |
| C7418 | A | C | 1B |
| C7419 | A | C | 1B |
| C7420 | A | C | 2B |
| C7421 | A | C | 2B |
| C7422 | A | C | 2A |
| C7423 | A | C | 2B |
| C7424 | A | C | 2B |
| C7425 | A | C | 2A |
| C7501 | A | C | 3D |
| C7502 | A | C | 3D |
| C7503 | A | C | 1D |
| C7504 | A | C | 1C |
| C7505 | A | C | 2D |
| C7506 | A | C | 2D |
| C7507 | A | C | 2D |
| C7508 | A | C | 3D |
| C7509 | A | C | 1C |
| C7510 | A | C | 3D |
| C7511 | A | C | 2C |
| **CONNECTOR** | | | |
| CN7501 | A | C | 2D |
| CN7502 | A | C | 3C |
| **DIODE** | | | |
| D7301 | A | C | 2A |
| D7302 | A | C | 3B |
| D7303 | A | C | 3C |
| D7401 | A | C | 2B |
| D7501 | A | C | 2D |
| **FUSE** | | | |
| F7501 | A | C | 1D |
| **IC** | | | |
| IC7301 | A | C | 2B |
| IC7302 | A | C | 2C |
| IC7401 | A | C | 1A |
| IC7501 | A | C | 2D |
| IC7502 | A | C | 2C |
| **COIL** | | | |
| L7301 | A | C | 2B |
| L7302 | A | C | 1B |
| L7303 | A | C | 1B |
| L7304 | A | C | 2B |
| L7401 | A | C | 2B |
| L7402 | A | C | 1B |
| L7501 | A | C | 1C |
| **TRANSISTOR** | | | |
| Q7301 | A | C | 1B |
| Q7302 | A | C | 3B |
| Q7303 | A | C | 3B |
| Q7304 | A | C | 3B |
| Q7305 | A | C | 3B |
| Q7306 | A | C | 3B |
| Q7307 | A | C | 3B |
| Q7401 | A | C | 1B |
| Q7501 | A | C | 2D |
| Q7502 | A | C | 2C |
| Q7503 | A | C | 2D |
| Q7504 | A | C | 3D |
| **RESISTOR** | | | |
| R7301 | A | C | 2C |
| R7302 | A | C | 3B |
| R7303 | A | C | 3B |
| R7304 | A | C | 2B |
| R7305 | A | C | 3B |
| R7306 | A | C | 3B |
| R7307 | A | C | 3B |
| R7314 | A | C | 2C |
| R7315 | A | C | 2C |
| R7316 | A | C | 1B |
| R7320 | A | C | 2B |
| R7321 | A | C | 2B |
| R7322 | A | C | 2A |
| R7323 | A | C | 2B |
| R7324 | A | C | 2A |
| R7325 | A | C | 2B |
| R7326 | A | C | 2B |
| R7330 | A | C | 3B |
| R7331 | A | C | 3B |
| R7332 | A | C | 3B |
| R7333 | A | C | 3B |
| R7334 | A | C | 3B |
| R7335 | A | C | 3B |
| R7336 | A | C | 2C |
| R7401 | A | C | 1B |
| R7402 | A | C | 1B |
| R7403 | A | C | 1B |
| R7404 | A | C | 1B |
| R7405 | A | C | 1B |
| R7406 | A | C | 1B |
| R7407 | A | C | 1B |
| R7414 | A | C | 1A |
| R7415 | A | C | 1A |
| R7416 | A | C | 1A |
| R7417 | A | C | 1B |
| R7418 | A | C | 1B |
| R7420 | A | C | 2A |
| R7421 | A | C | 2A |
| R7422 | A | C | 2A |
| R7423 | A | C | 2B |
| R7424 | A | C | 2A |
| R7425 | A | C | 2A |
| R7426 | A | C | 2B |
| R7501 | A | C | 3D |
| R7502 | A | C | 3D |
| R7503 | A | C | 3D |
| R7504 | A | C | 3D |
| R7505 | A | C | 2D |
| R7506 | A | C | 3D |
| R7507 | A | C | 2D |
| R7508 | A | C | 1D |
| R7509 | A | C | 1D |
| R7510 | A | C | 1D |
| R7511 | A | C | 1B |
| R7512 | A | C | 2D |
| R7513 | A | C | 2D |
| R7514 | A | C | 2D |
| R7515 | A | C | 3D |
| R7516 | A | C | 3D |
| R7517 | A | C | 3D |
| R7518 | A | C | 3D |
| R7519 | A | C | 3D |
| R7520 | A | C | 2D |
| R7521 | A | C | 2D |
| R7522 | A | C | 3D |
| R7523 | A | C | 3D |
| R7524 | A | C | 3D |
| R7525 | A | C | 2D |
| R7526 | A | C | 2C |
| R7527 | A | C | 3D |
| R7528 | A | C | 3D |
| R7529 | A | C | 2C |
| **OTHER** | | | |
| JP7501 | A | C | 1D |
| JP7502 | A | C | 1B |
| PC0229 | A | C | 3A |
| PC0230 | A | C | 3A |
| T7501 | A | C | 2C |
| T7502 | A | C | 1C |
| TL7301 | A | C | 2A |
| TL7302 | A | C | 2A |
| TL7303 | A | C | 3C |
| TL7304 | A | C | 3B |
| TL7305 | A | C | 3B |
| TL7306 | A | C | 3A |
| TL7307 | A | C | 3B |
| TL7401 | A | C | 2A |
| TL7402 | A | C | 2A |
| TL7403 | A | C | 1A |
| TL7404 | A | C | 1B |
| TL7405 | A | C | 1B |
| TL7406 | A | C | 1B |
| ZP1-1 | A | C | 1B |
| ZP1-5 | A | C | 1C |
| ZP1-11 | A | C | 2B |
| ZP1-13 | A | C | 1B |
| ZP1-14 | A | C | 1A |
| ZP1-16 | A | C | 1B |
| ZP1-17 | A | C | 1B |
| ZP1-19 | A | C | 1B |
| ZP1-25 | A | C | 2C |
| ZP1-26 | A | C | 1B |
| ZP1-27 | A | C | 2C |
| ZP1-28 | A | C | 2C |
| ZP1-29 | A | C | 2C |
| ZP1-30 | A | C | 2C |
| ZP1-31 | A | C | 2C |
| ZP1-33 | A | C | 1B |
| ZP1-37 | A | C | 1B |

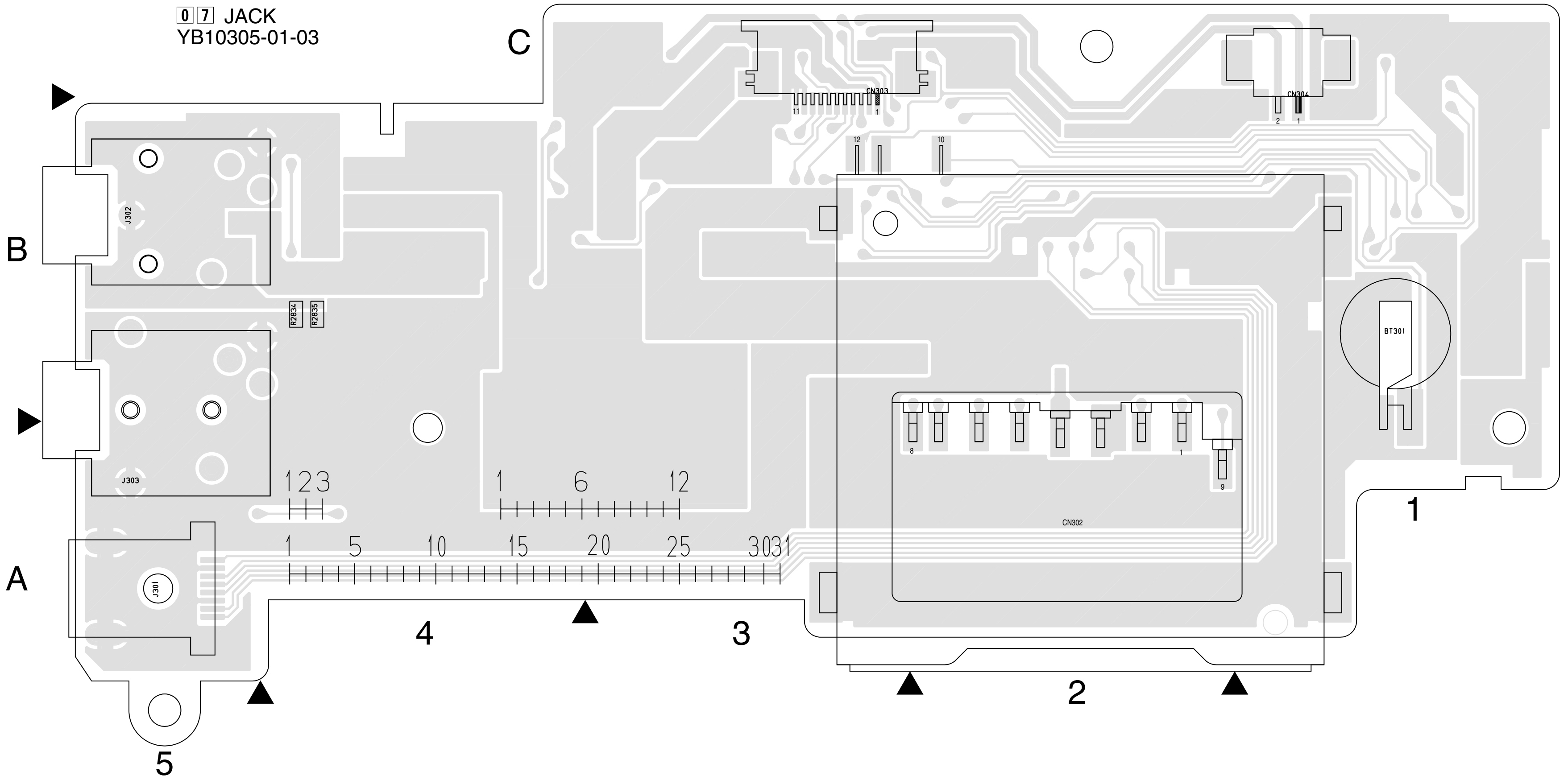
## 4.32 JACK CIRCUIT BOARD

FOIL SIDE(B)



07 JACK
YB10305-01-03
C
B
A
1
2
3
4
5
CN301
IC2821
TL2801
TL2821
TL2841
TL2842
TL2881
TL2882

COMPONENT SIDE(A)



07 JACK
YB10305-01-03
C
B
A
1
2
3
4
5
J301
J302
J303
CN302
CN303
CN304
BT301
R2834
R2835

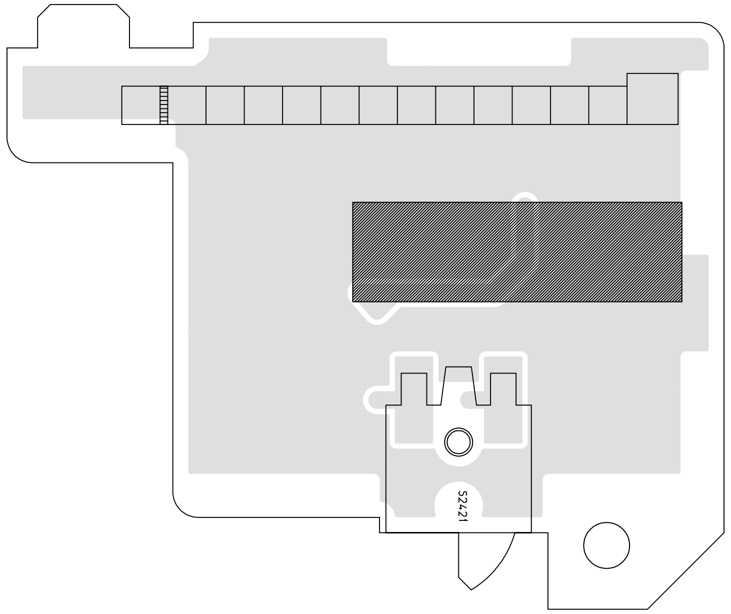
### COMPONENT PARTS LOCATION GUIDE
### <JACK>

| REF.NO. | LOCATION | | |
|---|---|---|---|
| **CAPACITOR** | | | |
| C2801 | B | C | 1B |
| C2802 | B | C | 1B |
| C2821 | B | C | 2B |
| C2841 | B | C | 5B |
| C2842 | B | C | 4B |
| C2843 | B | C | 4B |
| C2844 | B | C | 4B |
| C2845 | B | C | 4B |
| C2846 | B | C | 4B |
| C2847 | B | C | 4B |
| C2848 | B | C | 4B |
| C2849 | B | C | 4B |
| C2881 | B | C | 3C |
| C2882 | B | C | 3C |
| C2883 | B | C | 2C |
| **CONNECTOR** | | | |
| CN301 | B | C | 3B |
| CN302 | A | C | 2A |
| CN303 | A | C | 3C |
| CN304 | A | C | 1C |
| **DIODE** | | | |
| D2801 | B | C | 1C |
| D2821 | B | C | 2B |
| D2822 | B | C | 2B |
| D2823 | B | C | 2B |
| D2824 | B | C | 1B |
| D2825 | B | C | 2B |
| D2841 | B | C | 5B |
| D2842 | B | C | 4B |
| D2843 | B | C | 4B |
| D2844 | B | C | 4B |
| **IC** | | | |
| IC2821 | B | C | 2B |
| IC2822 | B | C | 2B |
| **COIL** | | | |
| L2801 | B | C | 1B |
| L2821 | B | C | 1C |
| L2841 | B | C | 4B |
| L2842 | B | C | 4B |
| L2843 | B | C | 4B |
| L2844 | B | C | 3B |
| L2845 | B | C | 4B |
| **TRANSISTOR** | | | |
| Q2801 | B | C | 1B |
| Q2821 | B | C | 2B |
| **RESISTOR** | | | |
| R2431 | A | C | 1A |
| R2435 | A | C | 1A |
| R2801 | B | C | 1B |
| R2802 | B | C | 1B |
| R2803 | B | C | 1B |
| R2804 | B | C | 1B |
| R2805 | B | C | 1B |
| R2806 | B | C | 1B |
| R2807 | B | C | 1B |
| R2808 | B | C | 1B |
| R2809 | B | C | 1B |
| R2810 | B | C | 1B |
| R2811 | B | C | 1B |
| R2812 | B | C | 1B |
| R2813 | B | C | 1B |
| R2814 | B | C | 1C |
| R2815 | B | C | 1C |
| R2816 | B | C | 1B |
| R2817 | B | C | 1B |
| R2818 | B | C | 1B |
| R2819 | B | C | 1C |
| R2820 | B | C | 1B |
| R2821 | B | C | 2B |
| R2822 | B | C | 2B |
| R2823 | B | C | 2B |
| R2824 | B | C | 2B |
| R2825 | B | C | 2B |
| R2826 | B | C | 2B |
| R2827 | B | C | 2B |
| R2828 | B | C | 2B |
| R2829 | B | C | 2B |
| R2830 | B | C | 2B |
| R2831 | B | C | 2B |
| R2832 | B | C | 2B |
| R2833 | B | C | 2B |
| R2834 | A | C | 4B |
| R2835 | A | C | 4B |
| R2841 | B | C | 5B |
| R2842 | B | C | 5B |
| R2843 | B | C | 5B |
| R2844 | B | C | 4B |
| R2845 | B | C | 4B |
| R2846 | B | C | 4B |
| R2847 | B | C | 4B |
| R2848 | B | C | 4B |
| R2849 | B | C | 4B |
| R2861 | B | C | 3B |
| R2862 | B | C | 3B |
| R2881 | B | C | 2B |
| R2882 | B | C | 2C |
| R2883 | B | C | 3B |
| R2884 | B | C | 2B |
| R2885 | B | C | 2C |
| R2886 | B | C | 2B |
| **OTHER** | | | |
| BT301 | A | C | 1B |
| J301 | A | C | 5A |
| J302 | A | D | 5B |
| J303 | A | D | 5A |
| PC05 | A | C | 5C |
| TL2801 | B | C | 1B |
| TL2821 | B | C | 1B |
| TL2841 | B | C | 5B |
| TL2842 | B | C | 5B |
| TL2843 | B | C | 4B |
| TL2844 | B | C | 4B |
| TL2881 | B | C | 2B |
| TL2882 | B | C | 2C |

## 4.33 EJECT AND DECK OPE. CIRCUIT BOARDS

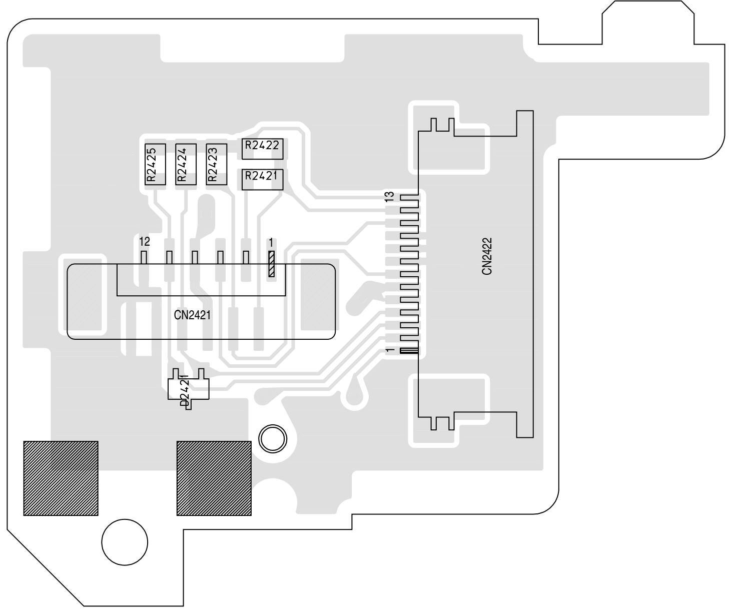
0 8 EJECT
YB10305-01-03

FOIL SIDE(B)



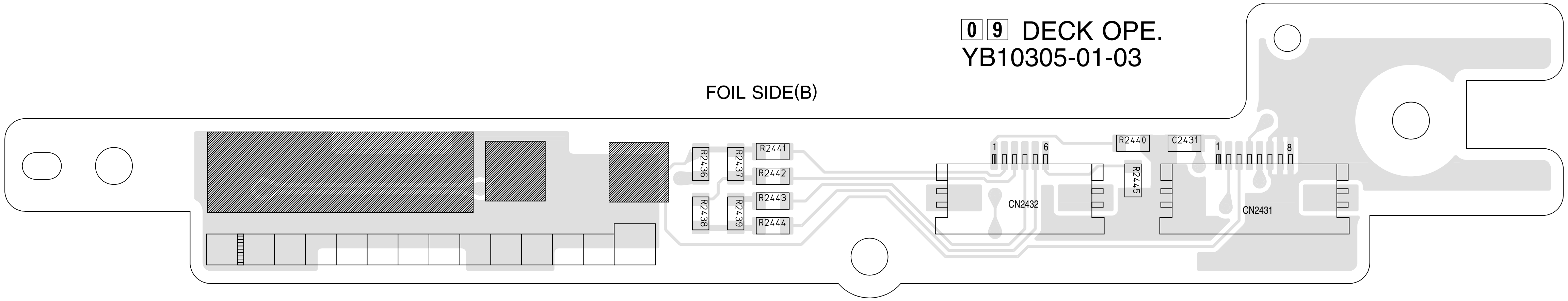
0 8 EJECT
YB10305-01-03

COMPONENT SIDE(A)


R2425
R2424
R2423
R2422
R2421
12
1
13
1
CN2421
CN2422
D2421

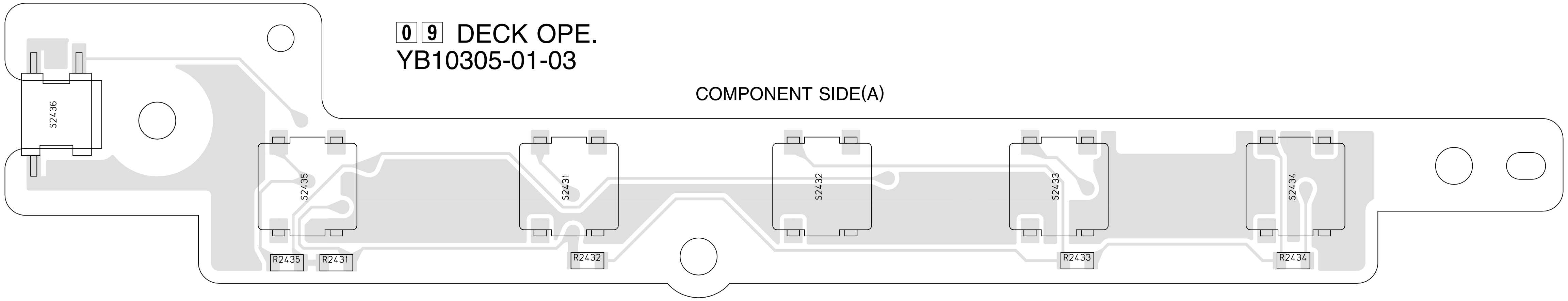
0 9 DECK OPE.
YB10305-01-03

FOIL SIDE(B)


R2436
R2437
R2441
R2442
R2438
R2439
R2443
R2444
1
6
CN2432
R2440
C2431
R2445
1
8
CN2431

0 9 DECK OPE.
YB10305-01-03

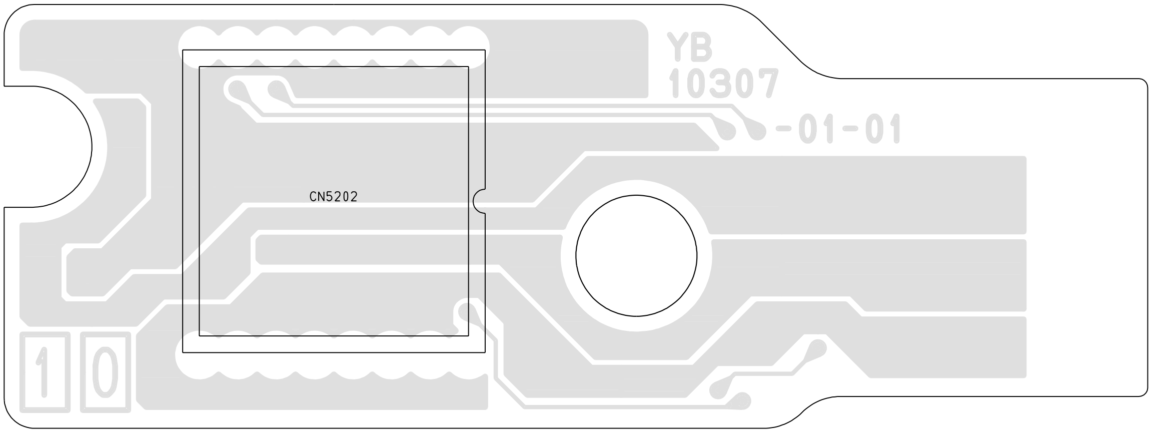
COMPONENT SIDE(A)


S2436
S2435
S2431
S2432
S2433
S2434
R2435
R2431
R2432
R2433
R2434

## 4.34 CCD CIRCUIT BOARD

10 CCD
YB10307-01-01

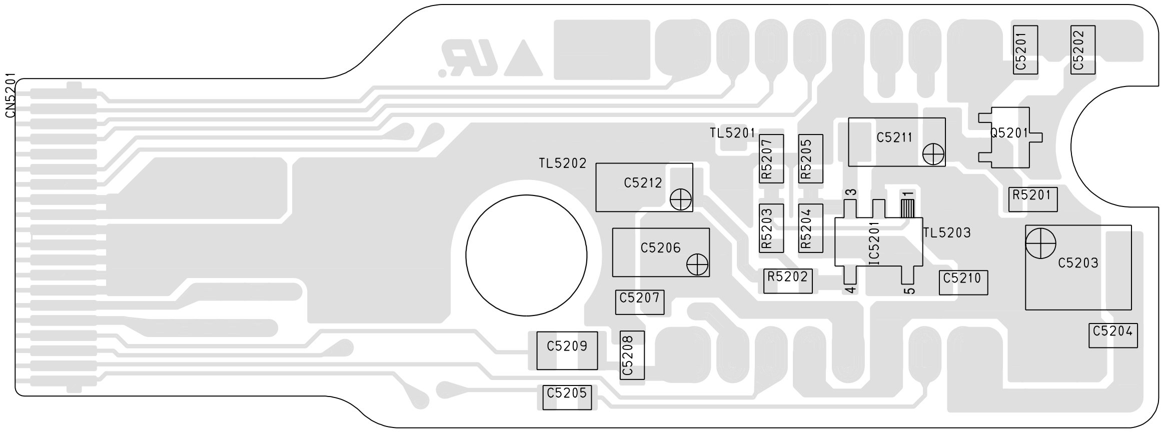
FOIL SIDE(B)



YB
10307
-01-01
CN5202
1 0

10 CCD
YB10307-01-01

COMPONENT SIDE(A)



CN5201
C5201
C5202
TL5201
C5211
Q5201
TL5202
R5207
R5205
C5212
R5201
3
1
R5203
R5204
IC5201
TL5203
C5206
C5203
R5202
4
5
C5210
C5207
C5204
C5209
C5208
C5205

## 4.35 VOLTAGE CHARTS

**<MAIN IF>**

| MODE PIN NO. | REC | PLAY |
|---|---|---|
| IC1201 | | |
| 1 | 0 | 0 |
| 2 | 4.6 | 4.6 |
| 3 | 4.6 | 4.6 |
| 4 | 0 | 0 |
| 5 | 0 | 0 |
| 6 | 2.8 | 2.8 |
| 7 | 0 | 0 |
| 8 | 0 | 0 |
| IC1301 | | |
| 1 | 0 | 0 |
| 2 | 2.9 | 2.9 |
| 3 | 0 | 0 |
| 4 | 3.0 | 3.0 |
| 5 | 3.0 | 3.0 |
| IC1302 | | |
| 1 | 3.0 | 3.0 |
| 2 | 0 | 0 |
| 3 | 0 | 0 |
| 4 | 0 | 0 |
| 5 | 3.0 | 3.0 |
| IC6001 | | |
| 1 | 6.6 | 6.6 |
| 2 | 6.4 | 6.4 |
| 3 | 0 | 0 |
| 4 | 0 | 0 |
| IC6002 | | |
| 1 | 0 | 0 |
| 2 | 6.6 | 6.6 |
| 3 | 3.3 | 3.3 |
| 4 | 0 | 0 |
| IC6003 | | |
| 1 | 6.6 | 6.6 |
| 2 | 0 | 0 |
| 3 | 6.6 | 6.6 |
| 4 | 0 | 0 |
| 5 | 3.0 | 3.0 |
| IC6004 | | |
| 1 | 3.0 | 3.0 |
| 2 | 3.0 | 3.0 |
| 3 | 0 | 0 |
| 4 | 0 | 0 |
| Q1301 | | |
| E | 0 | 0 |
| C | 0 | 0 |
| B | 0 | 0 |
| Q2001 | | |
| D | 4.6 | 4.6 |
| S | 0 | 0 |
| G | 4.5 | 4.5 |
| Q2002 | | |
| D | 0 | 0 |
| S | 4.5 | 4.5 |
| G | 0 | 0 |
| Q6001 | | |
| D | 6.7 | 6.7 |
| S | 6.6 | 6.6 |
| G | 0 | 0 |
| Q6002 | | |
| D | 0 | 0 |
| S | 0 | 0 |
| G | 6.6 | 6.6 |
| Q6003 | | |
| D | 3.7 | 3.7 |
| S | 0 | 0 |
| G | 3.0 | 3.0 |
| Q6004 | | |
| D | 0 | 0 |
| S | 6.3 | 6.3 |
| G | 0 | 0 |
| Q6005 | | |
| D | 0 | 0 |
| S | 0 | 0 |
| G | 3.0 | 3.0 |
| Q6006 | | |
| D | 6.6 | 6.6 |
| S | 6.6 | 6.6 |
| G | 0 | 0 |
| Q6007 | | |
| 1(E) | 0 | 0 |
| 2(B) | 3.0 | 3.0 |
| 3(E) | 6.7 | 6.7 |
| 4(C) | 6.7 | 6.7 |
| 5(C) | 0 | 0 |

**<CPU>**

| MODE PIN NO. | REC | PLAY |
|---|---|---|
| IC1001 | - | - |
| IC1002 | - | - |
| IC1003 | | |
| 1 | 3.0 | 3.0 |
| 2 | 0 | 0 |
| 3 | 2.9 | 2.9 |
| 4 | 0 | 0 |
| 5 | 2.9 | 2.9 |
| 6 | 3.0 | 3.0 |
| 7 | 2.9 | 2.9 |
| 8 | 3.0 | 3.0 |
| IC1004 | | |
| 1 | 2.9 | 2.9 |
| 2 | 3.0 | 3.0 |
| 3 | 3.0 | 3.0 |
| 4 | 0 | 0 |
| 5 | 3.0 | 3.0 |
| 6 | 2.9 | 2.9 |
| 7 | 3.0 | 3.0 |
| 8 | 3.0 | 3.0 |
| IC1005 | | |
| 1 | 2.9 | 2.9 |
| 2 | 2.9 | 2.9 |
| 3 | 2.9 | 2.9 |
| 4 | 0 | 0 |
| 5 | 3.0 | 3.0 |
| 6 | 3.0 | 3.0 |
| 7 | 2.9 | 2.9 |
| 8 | 3.0 | 3.0 |
| IC1006 | | |
| 1 | 3.0 | 3.0 |
| 2 | 0 | 0 |
| 3 | 0 | 0 |
| 4 | 0 | 0 |
| 5 | 0 | 0 |
| 6 | 0 | 0 |
| 7 | 3.0 | 3.0 |
| 8 | 3.0 | 3.0 |
| IC1007 | | |
| 1 | 2.9 | 2.9 |
| 2 | 2.5 | 2.5 |
| 3 | 2.9 | 2.9 |
| 4 | 2.9 | 2.9 |
| 5 | 2.9 | 2.9 |
| 6 | 3.0 | 3.0 |
| 7 | 1.3 | 1.3 |
| 8 | 1.4 | 1.4 |
| 9 | 0 | 0 |
| 10 | 0 | 0 |
| 11 | 0 | 0 |
| 12 | 0 | 0 |
| 13 | 0 | 0 |
| 14 | 0 | 0 |
| 15 | 0 | 0 |
| 16 | 0 | 0 |
| 17 | 0 | 0 |
| 18 | 0 | 0 |
| 19 | 2.9 | 2.9 |
| 20 | 2.7 | 2.7 |
| IC1008 | | |
| 1 | 2.9 | 2.9 |
| 2 | 2.9 | 2.9 |
| 3 | 3.0 | 3.0 |
| 4 | 2.9 | 2.9 |
| 5 | 2.9 | 2.9 |
| 6 | 2.9 | 2.9 |
| 7 | 0 | 0 |
| 8 | 2.9 | 2.9 |
| 9 | 3.0 | 3.0 |
| 10 | 3.0 | 3.0 |
| 11 | 3.0 | 3.0 |
| 12 | 3.0 | 3.0 |
| 13 | 2.9 | 2.9 |
| 14 | 3.0 | 3.0 |
| Q1001 | | |
| E | 0 | 0 |
| C | 0.4 | 0.4 |
| B | 0 | 0 |
| Q1002 | | |
| E | 0 | 0 |
| C | 3.0 | 3.0 |
| B | 0.5 | 0.5 |
| Q1003 | | |
| E | 0 | 0 |
| C | 0 | 0 |
| B | 0 | 0 |

**<MSD CPU>**

| MODE PIN NO. | REC | PLAY |
|---|---|---|
| IC1401 | - | - |
| IC1403 | 3.0 | 3.0 |
| 1 | 0 | 0 |
| 2 | 0 | 0 |
| 3 | 0 | 0 |
| 4 | 0 | 0 |
| 5 | 0 | 0 |
| 6 | 0 | 0 |
| 7 | 2.9 | 2.9 |
| 8 | 2.9 | 2.9 |
| Q1401 | | |
| E | 2.9 | 2.9 |
| C | 2.9 | 2.9 |
| B | 2.9 | 2.9 |
| Q1402 | | |
| 1(E) | 0 | 0 |
| 2(B) | 2.9 | 2.9 |
| 3(E) | 2.9 | 2.9 |
| 4(C) | 2.8 | 2.8 |
| 5(C) | 0 | 0 |
| Q1403 | | |
| 1(E) | 0 | 0 |
| 2(B) | 0 | 0 |
| 3(E) | 3.0 | 3.0 |
| 4(C) | 0 | 0 |
| 5(C) | 2.9 | 2.9 |
| Q1404 | | |
| E | 0 | 0 |
| C | 0 | 0 |
| B | 3.0 | 3.0 |

**<DV MAIN>**

| MODE PIN NO. | REC | PLAY |
|---|---|---|
| IC3001 | - | - |
| IC3002 | - | - |
| IC3302 | - | - |

**<V OUT>**

| MODE PIN NO. | REC | PLAY |
|---|---|---|
| IC3701 | | |
| 1 | 1.9 | 1.9 |
| 2 | 1.3 | 1.3 |
| 3 | 1.3 | 1.3 |
| 4 | 1.1 | 1.1 |
| 5 | 0 | 0 |
| 6 | 0 | 0 |
| 7 | 0 | 0 |
| 8 | 0 | 0 |
| 9 | 2.6 | 2.6 |
| 10 | 2.6 | 2.6 |
| 11 | 1.9 | 1.9 |
| 12 | 2.1 | 2.1 |
| 13 | 0 | 0 |
| 14 | 2.0 | 2.0 |
| 15 | 4.6 | 4.6 |
| 16 | 3.0 | 3.0 |
| 17 | 0 | 0 |
| 18 | 1.2 | 1.2 |
| 19 | 1.7 | 1.7 |
| 20 | 1.8 | 1.8 |
| IC3702 | | |
| 1 | 4.6 | 4.6 |
| 2 | 0 | 0 |
| 3 | 1.2 | 1.2 |
| 4 | 3.0 | 3.0 |
| 5 | 4.5 | 4.5 |
| Q3701 | | |
| E | 0 | 0 |
| C | 1.1 | 1.1 |
| B | 0 | 0 |
| Q3702 | | |
| E | 0 | 0 |
| C | 4.6 | 4.6 |
| B | 0 | 0 |

**<ANA IN>**

| MODE PIN NO. | REC | PLAY |
|---|---|---|
| IC3901 | | |
| 1 | 0 | 0 |
| 2 | 2.9 | 2.9 |
| 3 | 1.1 | 1.1 |
| 4 | 0.6 | 0.6 |
| 5 | 0 | 0 |
| 6 | 1.6 | 1.6 |
| 7 | 0.6 | 0.6 |
| 8 | 1.1 | 1.1 |
| 9 | 0 | 0 |
| 10 | 2.9 | 2.9 |
| 11 | 0.5 | 0.5 |
| 12 | 0 | 0 |
| 13 | 0 | 0 |
| 14 | 2.9 | 2.9 |
| 15 | 0 | 0 |
| 16 | 0 | 0 |
| 17 | 0 | 0 |
| 18 | 0 | 0 |
| 19 | 0 | 0 |
| 20 | 0 | 0 |
| 21 | 0 | 0 |
| 22 | 0 | 0 |
| 23 | 1.7 | 1.7 |
| 24 | 2.8 | 2.8 |
| 25 | 1.5 | 1.5 |
| 26 | 0.9 | 0.9 |
| 27 | 1.0 | 1.0 |
| 28 | 1.2 | 1.2 |
| 29 | 1.3 | 1.3 |
| 30 | 0 | 0 |
| 31 | 2.9 | 2.9 |
| 32 | 1.3 | 1.3 |
| 33 | 1.3 | 1.3 |
| 34 | 1.3 | 1.3 |
| 35 | 1.2 | 1.2 |
| 36 | 2.7 | 2.7 |
| 37 | 1.5 | 1.5 |
| 38 | 1.3 | 1.3 |

| MODE PIN NO. | REC | PLAY |
|---|---|---|
| 39 | 1.2 | 1.2 |
| 40 | 1.4 | 1.4 |
| 41 | 1.3 | 1.3 |
| 42 | 1.3 | 1.3 |
| 43 | 1.5 | 1.5 |
| 44 | 1.4 | 1.4 |
| 45 | 1.5 | 1.5 |
| 46 | 0 | 0 |
| 47 | 0 | 0 |
| 48 | 0 | 0 |
| 49 | 2.9 | 2.9 |
| 50 | 2.9 | 2.9 |
| 51 | 2.9 | 2.9 |
| 52 | 0 | 0 |
| 53 | 1.6 | 1.6 |
| 54 | 1.4 | 1.4 |
| 55 | 3.0 | 3.0 |
| 56 | 0 | 0 |
| 57 | 0 | 0 |
| 58 | 2.9 | 2.9 |
| 59 | 2.7 | 2.7 |
| 60 | 2.8 | 2.8 |
| 61 | 1.4 | 1.4 |
| 62 | 0 | 0 |
| 63 | 2.9 | 2.9 |
| 64 | 0 | 0 |
| 65 | 0 | 0 |
| 66 | 0 | 0 |
| 67 | 0 | 0 |
| 68 | 0 | 0 |
| 69 | 0 | 0 |
| 70 | 0 | 0 |
| 71 | 0 | 0 |
| 72 | 0 | 0 |
| 73 | 2.9 | 2.9 |
| 74 | 1.1 | 1.1 |
| 75 | 0.5 | 0.5 |
| 76 | 0 | 0 |
| 77 | 1.6 | 1.6 |
| 78 | 0.5 | 0.5 |
| 79 | 1.1 | 1.1 |
| 80 | 0.5 | 0.5 |
| IC3903 | | |
| 1 | 0 | 0 |
| 2 | 2.7 | 2.7 |
| 3 | 0 | 0 |
| 4 | 0 | 0 |
| 5 | 2.9 | 2.9 |
| IC3951 | | |
| 1 | 3.0 | 3.0 |
| 2 | 2.1 | 2.1 |
| 3 | 4.6 | 4.6 |
| 4 | 1.7 | 1.7 |
| 5 | 0 | 0 |
| 6 | 2.4 | 2.4 |
| Q3951 | | |
| 1(E) | 0 | 0 |
| 2(B) | 0.5 | 0.5 |
| 3(C) | 0 | 0 |
| 4(E) | 2.1 | 2.1 |
| 5(B) | 1.5 | 1.5 |
| 6(C) | 4.6 | 4.6 |

| MODE PIN NO. | REC | PLAY |
|---|---|---|
| Q3952 | | |
| E | 0 | 0 |
| C | 0 | 0 |
| B | 3.0 | 3.0 |
| Q3953 | | |
| 1(E) | 0 | 0 |
| 2(B) | 0.4 | 0.4 |
| 3(C) | 0 | 0 |
| 4(E) | 4.5 | 4.5 |
| 5(B) | 4.6 | 4.6 |
| 6(C) | 4.6 | 4.6 |
| Q3954 | | |
| E | 0 | 0 |
| C | 4.6 | 4.6 |
| B | 0 | 0 |

### <TG/VDR>

| MODE PIN NO. | REC | PLAY |
|---|---|---|
| IC5001 | | |
| 1 | 0 | 0 |
| 2 | 3.0 | 3.0 |
| 3 | 0 | 0 |
| 4 | 0 | 0 |
| 5 | 3.0 | 3.0 |
| 6 | 3.0 | 3.0 |
| 7 | 0 | 0 |
| 8 | 2.9 | 2.9 |
| 9 | 3.0 | 3.0 |
| 10 | 3.0 | 3.0 |
| 11 | 3.4 | 3.4 |
| 12 | 0 | 0 |
| 13 | 0 | 0 |
| 14 | 0 | 0 |
| 15 | 1.5 | 0 |
| 16 | 0 | 0 |
| 17 | 0 | 0 |
| 18 | 1.1 | 0 |
| 19 | 3.4 | 3.4 |
| 20 | 1.9 | 0 |
| 21 | 2.0 | 0 |
| 22 | 3.0 | 3.0 |
| 23 | 0 | 0 |
| 24 | 0.8 | 0 |
| 25 | 2.6 | 0 |
| 26 | 3.0 | 0 |
| 27 | 3.0 | 0 |
| 28 | 0 | 0 |
| 29 | 0 | 0 |
| 30 | 0 | 0 |
| 31 | 1.4 | 0.9 |
| 32 | 0 | 0 |
| 33 | 3.0 | 3.0 |
| 34 | 0 | 0 |
| 35 | 0.8 | 0 |
| 36 | 1.1 | 0 |
| 37 | 0.7 | 0 |
| 38 | 3.0 | 3.0 |
| 39 | 0 | 0 |
| 40 | 0 | 0 |
| 41 | 0 | 0 |

| MODE PIN NO. | REC | PLAY |
|---|---|---|
| 42 | 1.4 | 1.4 |
| 43 | 0 | 0 |
| 44 | 0.6 | 0.6 |
| 45 | 0 | 0 |
| 46 | 0 | 0 |
| 47 | 1.5 | 1.5 |
| 48 | 1.5 | 0 |
| 49 | 1.5 | 0 |
| 50 | 0 | 0 |
| 51 | 0 | 0 |
| 52 | -7.3 | 0 |
| 53 | 0 | 0 |
| 54 | 14.9 | 14.9 |
| 55 | 0 | 0 |
| 56 | 0 | 0 |
| 57 | 0 | 0 |
| 58 | 0 | 0 |
| 59 | 0 | 0 |
| 60 | -7.3 | 0 |
| 61 | -7.6 | -7.6 |
| 62 | -7.3 | 0 |
| 63 | -7.6 | -7.6 |
| 64 | 0 | 0 |
| IC5002 | | |
| 1 | 4.6 | 4.6 |
| 2 | 0 | 0 |
| 3 | 1.2 | 1.2 |
| 4 | 3.4 | 3.4 |
| 5 | 4.6 | 4.6 |
| IC5004 | | |
| 1 | 0.9 | 0 |
| 2 | 0.9 | 0.9 |
| 3 | 0 | 0 |
| 4 | 0 | 0 |
| 5 | 3.0 | 3.0 |
| 6 | 1.3 | 1.3 |
| 7 | 3.0 | 3.0 |
| 8 | 0.5 | 1.4 |

### <CDS/AD>

| MODE PIN NO. | REC | PLAY |
|---|---|---|
| IC4201 | | |
| 1 | 0 | 0 |
| 2 | 1.2 | 0 |
| 3 | 1.2 | 0 |
| 4 | 1.2 | 0 |
| 5 | 1.2 | 0 |
| 6 | 1.0 | 0 |
| 7 | 1.4 | 3.1 |
| 8 | 1.3 | 0 |
| 9 | 0.6 | 0 |
| 10 | 0.7 | 0 |
| 11 | 0 | 0 |
| 12 | 0 | 0 |
| 13 | 0 | 0 |
| 14 | 0 | 0 |
| 15 | 3.1 | 3.1 |
| 16 | 0.9 | 0 |
| 17 | 3.0 | 0 |
| 18 | 1.9 | 0 |

| MODE PIN NO. | REC | PLAY |
|---|---|---|
| 19 | 2.0 | 0 |
| 20 | 2.6 | 0 |
| 21 | 0 | 0 |
| 22 | 0 | 0 |
| 23 | 3.0 | 3.0 |
| 24 | 0 | 0 |
| 25 | 0 | 0 |
| 26 | 2.1 | 0.7 |
| 27 | 1.5 | 0 |
| 28 | 2.0 | 0 |
| 29 | 2.0 | 0 |
| 30 | 0 | 0 |
| 31 | 3.0 | 3.0 |
| 32 | 2.0 | 1.3 |
| 33 | 1.0 | 1.2 |
| 34 | 1.5 | 1.1 |
| 35 | 1.2 | 0 |
| 36 | 0 | 0 |
| 37 | 0 | 0 |
| 38 | 3.0 | 3.0 |
| 39 | 0 | 0 |
| 40 | 0 | 0 |
| 41 | 3.0 | 3.0 |
| 42 | 0 | 0 |
| 43 | 3.0 | 3.0 |
| 44 | 2.9 | 2.9 |
| 45 | 2.9 | 2.9 |
| 46 | 3.1 | 3.1 |
| 47 | - | - |
| 48 | - | - |
| IC4202 | | |
| 1 | 3.0 | 3.0 |
| 2 | 4.6 | 4.6 |
| 3 | 0 | 0 |

### <DSP>

| MODE PIN NO. | REC | PLAY |
|---|---|---|
| IC4301 | - | - |
| IC4302 | | |
| 1 | 2.9 | 2.9 |
| 2 | 0 | 0 |
| 3 | 1.2 | 1.2 |
| 4 | 2.5 | 2.5 |
| 5 | 2.9 | 2.9 |
| IC4401 | | |
| 1 | 0 | 0 |
| 2 | 1.2 | 1.2 |
| 3 | 1.2 | 1.2 |
| 4 | 0.6 | 0.6 |
| 5 | 0.8 | 0.8 |
| 6 | 1.4 | 1.4 |
| 7 | 1.1 | 1.1 |
| 8 | 1.3 | 1.3 |
| 9 | 1.2 | 1.2 |
| 10 | 3.0 | 3.0 |
| 11 | 3.0 | 3.0 |
| 12 | 1.4 | 1.4 |
| 13 | 1.4 | 1.4 |
| 14 | 2.2 | 1.5 |
| 15 | 0 | 0 |

| MODE PIN NO. | REC | PLAY |
|---|---|---|
| 16 | 2.9 | 2.9 |
| 17 | 2.9 | 2.9 |
| 18 | 1.3 | 1.3 |
| 19 | 1.5 | 1.5 |
| 20 | 0 | 0 |
| Q4351 | - | - |
| Q4352 | - | - |
| Q4353 | - | - |
| Q4354 | - | - |

### <OP DRIVE>

| MODE PIN NO. | REC | PLAY |
|---|---|---|
| IC4802 | | |
| 1 | 2.5 | 2.5 |
| 2 | 2.1 | 2.1 |
| 3 | 2.0 | 2.0 |
| 4 | 0 | 0 |
| 5 | 2.1 | 2.1 |
| 6 | 2.0 | 2.0 |
| 7 | 2.1 | 2.1 |
| 8 | 4.6 | 4.6 |
| IC4803 | | |
| 1 | 1.1 | 1.1 |
| 2 | 0.5 | 0.5 |
| 3 | 0.4 | 0.4 |
| 4 | 0 | 0 |
| 5 | 2.1 | 2.1 |
| 6 | 2.1 | 2.1 |
| 7 | 1.7 | 0.5 |
| 8 | 4.6 | 4.6 |
| IC4804 | | |
| 1 | 2.1 | 0.7 |
| 2 | 2.0 | 2.3 |
| 3 | 2.0 | 2.0 |
| 4 | 0 | 0 |
| 5 | 2.1 | 2.1 |
| 6 | 2.1 | 1.6 |
| 7 | 2.0 | 3.9 |
| 8 | 4.6 | 4.6 |
| IC4805 | | |
| 1 | 2.1 | 0 |
| 2 | 1.8 | 0.5 |
| 3 | 1.8 | 0 |
| 4 | 0 | 0 |
| 5 | 1.9 | 1.9 |
| 6 | 2.1 | 2.1 |
| 7 | 2.0 | 2.0 |
| 8 | 4.6 | 4.6 |
| IC4806 | | |
| 1 | 1.8 | 0 |
| 2 | 1.8 | 0 |
| 3 | 1.8 | 0 |
| 4 | 0 | 0 |
| 5 | 3.0 | 3.0 |
| 6 | 1.2 | 2.9 |
| 7 | 1.2 | 2.9 |
| 8 | 3.0 | 3.0 |

| MODE<br>PIN NO. | REC | PLAY |
|---|---|---|
| IC4807 | | |
| 1 | 2.0 | 2.0 |
| 2 | 2.0 | 2.0 |
| 3 | 4.5 | 4.5 |
| 4 | 0 | 0 |
| 5 | 2.0 | 2.0 |
| 6 | 2.0 | 2.0 |
| 7 | 4.5 | 4.5 |
| 8 | 4.6 | 4.6 |
| IC4808 | | |
| 1 | 2.1 | 1.6 |
| 2 | 2.0 | 3.9 |
| 3 | 0 | 0 |
| 4 | 2.1 | 1.7 |
| 5 | 4.6 | 4.6 |
| IC4851 | | |
| 1 | 0 | 0 |
| 2 | 0.6 | 0.6 |
| 3 | 0 | 0 |
| 4 | 0 | 0 |
| 5 | 0 | 0 |
| 6 | 0 | 0 |
| 7 | 0 | 0 |
| 8 | 3.0 | 3.0 |
| 9 | 6.7 | 6.7 |
| 10 | 0 | 0 |
| 11 | 0 | 0 |
| 12 | 0 | 0 |
| 13 | 6.7 | 6.7 |
| 14 | 0 | 0 |
| 15 | 0 | 0 |
| 16 | 0 | 0 |
| 17 | 0 | 0 |
| 18 | 0 | 0 |
| 19 | 0 | 0 |
| 20 | 0 | 0 |
| 21 | 0 | 0 |
| 22 | 0 | 0 |
| 23 | 6.7 | 6.7 |
| 24 | 0 | 0 |
| 25 | 0 | 0 |
| 26 | 0 | 0 |
| 27 | 6.7 | 6.7 |
| 28 | 0 | 0 |
| 29 | 0 | 0 |
| 30 | 0 | 0 |
| 31 | 3.0 | 3.0 |
| 32 | 0 | 0 |
| 33 | 0 | 0 |
| 34 | 2.8 | 2.8 |
| 35 | 2.9 | 2.9 |
| 36 | 1.5 | 1.5 |
| 37 | 1.4 | 1.4 |
| 38 | 2.9 | 2.9 |
| IC4901 | - | - |
| IC4902 | - | - |
| IC4903 | - | - |
| IC4904 | - | - |
| Q4801 | | |
| E | 0.5 | 0.5 |
| C | 1.6 | 1.6 |
| B | 1.1 | 1.1 |
| Q4802 | | |
| E | 0 | 0 |
| C | 2.0 | 3.9 |
| B | 0 | 0 |
| Q4803 | | |
| E | 0 | 0 |
| C | 4.5 | 4.5 |
| B | 0 | 0 |
| Q4804 | | |
| E | 4.6 | 4.6 |
| C | 2.1 | 1.7 |
| B | 4.5 | 4.5 |
| Q4851 | | |
| E | 0 | 0 |
| C | 3.5 | 3.5 |
| B | 0 | 0 |
| Q4901 | - | - |

**<DSC>**

| MODE<br>PIN NO. | REC | PLAY |
|---|---|---|
| IC8001 | - | - |
| IC8003 | - | - |
| IC8004 | | |
| 1 | 0 | 0 |
| 2 | 0 | 0 |
| 3 | 2.9 | 2.9 |
| 4 | 2.9 | 2.9 |
| 5 | 3.0 | 3.0 |
| 6 | 0 | 0 |
| 7 | 0 | 0 |
| 8 | 0 | 0 |
| 9 | 0 | 0 |
| 10 | 0 | 0 |
| 11 | 2.9 | 2.9 |
| 12 | 2.9 | 2.9 |
| 13 | 0 | 0 |
| 14 | 0 | 0 |
| 15 | 0 | 0 |
| 16 | 0 | 0 |
| 17 | 0 | 0 |
| 18 | 0 | 0 |
| 19 | 0 | 0 |
| 20 | 0 | 0 |
| 21 | 0 | 0 |
| 22 | 0 | 0 |
| 23 | 0 | 0 |
| 24 | 0 | 0 |
| 25 | 3.0 | 3.0 |
| 26 | 2.9 | 2.9 |
| 27 | 0 | 0 |
| 28 | 2.9 | 2.9 |
| 29 | 2.9 | 2.9 |
| 30 | 2.9 | 2.9 |
| 31 | 2.9 | 2.9 |
| 32 | 2.9 | 2.9 |
| 33 | 2.9 | 2.9 |
| 34 | 2.9 | 2.9 |
| 35 | 2.9 | 2.9 |
| 36 | 2.9 | 2.9 |
| 37 | 2.9 | 2.9 |
| 38 | 2.9 | 2.9 |
| 39 | 2.9 | 2.9 |
| 40 | 2.9 | 2.9 |
| 41 | 2.9 | 2.9 |
| 42 | 2.9 | 2.9 |
| 43 | 2.9 | 2.9 |
| 44 | 2.9 | 2.9 |
| 45 | 2.9 | 2.9 |
| 46 | 0 | 0 |
| 47 | 2.9 | 2.9 |
| 48 | 0 | 0 |
| IC8006 | - | - |
| IC8007 | - | - |
| IC8008 | - | - |
| IC8009 | - | - |

**<P SHIFT>**

| MODE<br>PIN NO. | REC | PLAY |
|---|---|---|
| IC8201 | - | - |
| IC8202 | - | - |
| IC8203 | - | - |
| IC8204 | - | - |

**<USB>**

| MODE<br>PIN NO. | REC | PLAY |
|---|---|---|
| IC8401 | - | - |
| IC8402 | - | - |
| Q8401 | | |
| E | 3.3 | 3.3 |
| C | 0 | 0 |
| B | 3.3 | 3.3 |

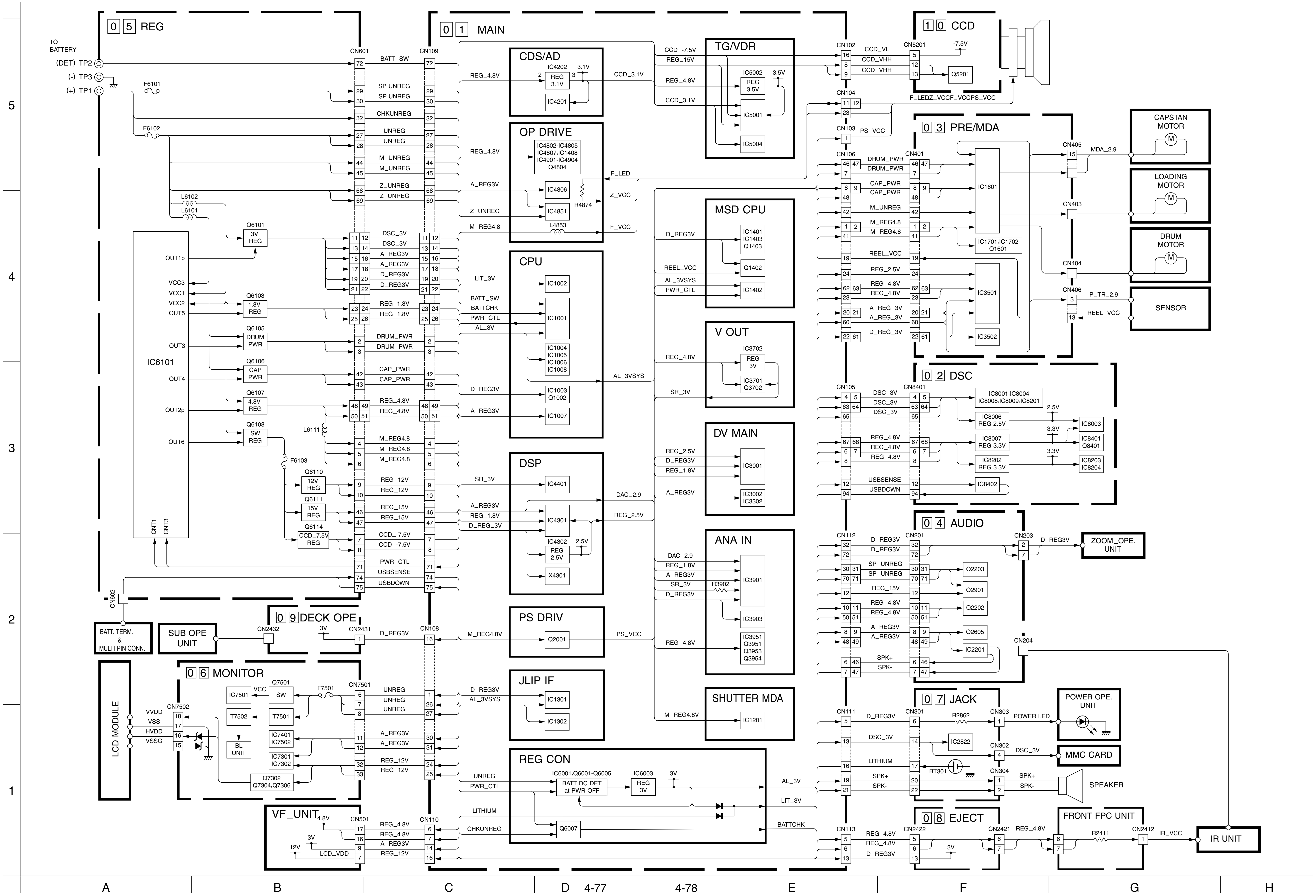
**<MDA>**

| MODE<br>PIN NO. | REC | PLAY |
|---|---|---|
| IC1601 | | |
| 1 | 0 | 0 |
| 2 | 1.1 | 1.1 |
| 3 | 1.1 | 1.1 |
| 4 | 0 | 0 |
| 5 | 1.1 | 1.1 |
| 6 | 0 | 0 |
| 7 | 0 | 0 |
| 8 | 0 | 0 |
| 9 | 0 | 0 |
| 10 | 0 | 0 |
| 11 | 0 | 0 |
| 12 | 0 | 0 |
| 13 | 0 | 0 |
| 14 | 4.6 | 4.6 |
| 15 | 0 | 0 |
| 16 | 0.4 | 0.4 |
| 17 | 0 | 0 |
| 18 | 0.4 | 0.4 |
| 19 | 0 | 0 |
| 20 | 0.5 | 0.5 |
| 21 | 0 | 0 |
| 22 | 0 | 0 |
| 23 | 0.8 | 0.8 |
| 24 | 6.6 | 6.6 |
| 25 | 1.5 | 1.5 |
| 26 | 1.5 | 1.5 |
| 27 | 1.5 | 1.5 |
| 28 | 1.5 | 1.5 |
| 29 | 1.5 | 1.5 |
| 30 | 1.5 | 1.5 |
| 31 | 1.5 | 1.5 |
| 32 | 1.5 | 1.5 |
| 33 | - | - |
| 34 | 1.5 | 1.5 |
| 35 | 3.0 | 3.0 |
| 36 | 3.0 | 3.0 |
| 37 | 0.4 | 0.4 |
| 38 | 0.7 | 0.7 |
| 39 | 0.7 | 0.7 |
| 40 | 1.2 | 1.2 |
| 41 | 1.5 | 1.5 |
| 42 | 1.5 | 0.6 |
| 43 | 2.9 | 2.9 |
| 44 | 0 | 0 |
| 45 | 0 | 0 |
| 46 | 0 | 0 |
| 47 | 2.9 | 2.9 |
| 48 | 0 | 0 |
| 49 | 3.0 | 3.0 |
| 50 | 1.9 | 1.9 |
| 51 | 0 | 0 |
| 52 | 1.3 | 1.3 |
| 53 | 1.0 | 1.0 |
| 54 | 1.4 | 0.7 |
| 55 | 0.6 | 0.6 |
| 56 | 0.7 | 0.7 |
| 57 | 1.0 | 1.0 |
| 58 | 0.6 | 0.6 |
| 59 | 0 | 0 |
| 60 | 1.0 | 1.0 |
| 61 | 2.7 | 2.7 |
| 62 | 1.1 | 1.1 |
| 63 | 1.5 | 1.5 |
| 64 | 1.4 | 1.4 |
| 65 | 1.5 | 1.5 |
| 66 | 1.4 | 1.4 |
| 67 | 1.5 | 1.5 |
| 68 | 0.6 | 0.6 |
| 69 | 0 | 0 |
| 70 | 1.1 | 1.1 |
| 71 | 1.1 | 1.1 |
| 72 | 1.1 | 1.1 |
| 73 | 1.1 | 1.1 |
| 74 | 1.1 | 1.1 |
| 75 | 0.4 | 0.4 |
| 76 | 0 | 0 |
| 77 | 6.7 | 6.7 |
| 78 | 2.4 | 2.4 |
| 79 | 0 | 0 |
| 80 | 0 | 0 |
| IC1701 | | |
| 1 | - | - |
| 2 | 1.4 | 1.4 |
| 3 | 1.4 | 1.4 |
| 4 | 0 | 0 |
| 5 | 1.4 | 1.4 |
| 6 | 1.4 | 1.4 |
| 7 | - | - |
| 8 | 4.6 | 4.6 |
| IC1702 | | |
| 1 | - | - |
| 2 | 1.4 | 1.4 |
| 3 | - | - |
| 4 | 0 | 0 |
| 5 | - | - |
| 6 | 1.4 | 1.4 |
| 7 | - | - |
| 8 | 4.6 | 4.6 |
| Q1601 | | |
| 1(E) | 0 | 0 |
| 2(B) | 0 | 0 |
| 3(E) | 4.6 | 4.6 |
| 4(C) | 0 | 0 |
| 5(C) | 4.6 | 4.6 |

**<PRE/REC>**

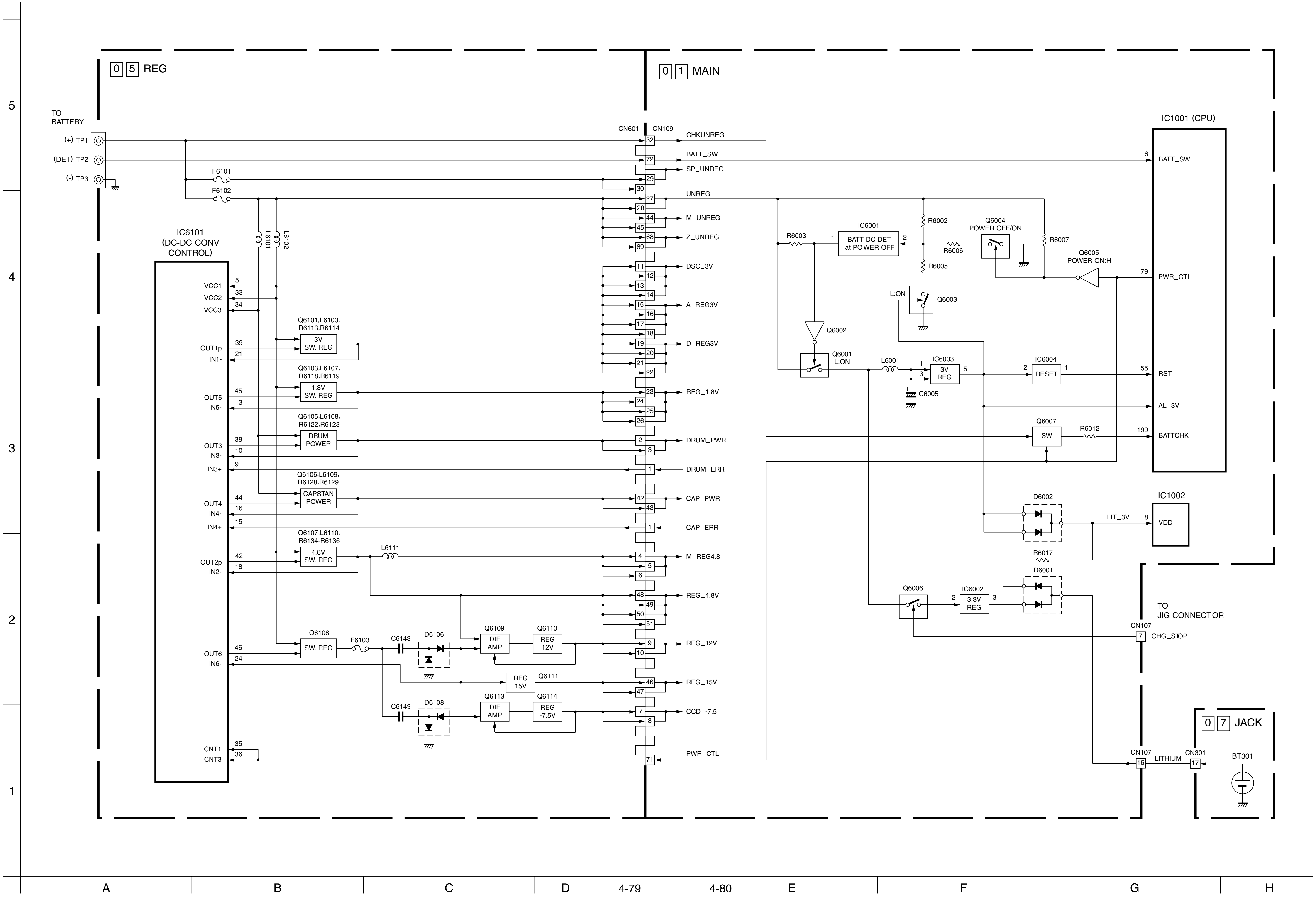
| MODE<br>PIN NO. | REC | PLAY |
|---|---|---|
| IC3501 | | |
| 1 | 0 | 0 |
| 2 | 1.1 | 1.1 |
| 3 | 0 | 0 |
| 4 | 0.9 | 1.6 |
| 5 | 2.5 | 2.5 |
| 6 | 2.2 | 1.5 |
| 7 | 1.4 | 0 |
| 8 | 0 | 0 |
| 9 | 3.7 | 0 |
| 10 | 1.1 | 1.1 |
| 11 | 2.9 | 2.9 |
| 12 | 0 | 0 |
| 13 | 4.5 | 4.5 |
| 14 | 0 | 0 |
| 15 | 0 | 0 |
| 16 | 0 | 0 |
| 17 | 0 | 0 |
| 18 | 3.7 | 1.6 |
| 19 | 3.7 | 1.6 |
| 20 | 3.7 | 1.6 |
| 21 | 3.7 | 1.6 |
| 22 | 0 | 0 |
| 23 | 3.7 | 1.6 |
| 24 | 3.7 | 1.6 |
| 25 | 3.7 | 1.6 |
| 26 | 3.7 | 1.6 |
| 27 | 0 | 0 |
| 28 | 1.8 | 1.8 |
| 29 | 3.7 | 1.7 |
| 30 | 3.7 | 1.7 |
| 31 | 1.8 | 1.8 |
| 32 | 0 | 0 |

## 4.36 POWER SYSTEM BLOCK DIAGRAM

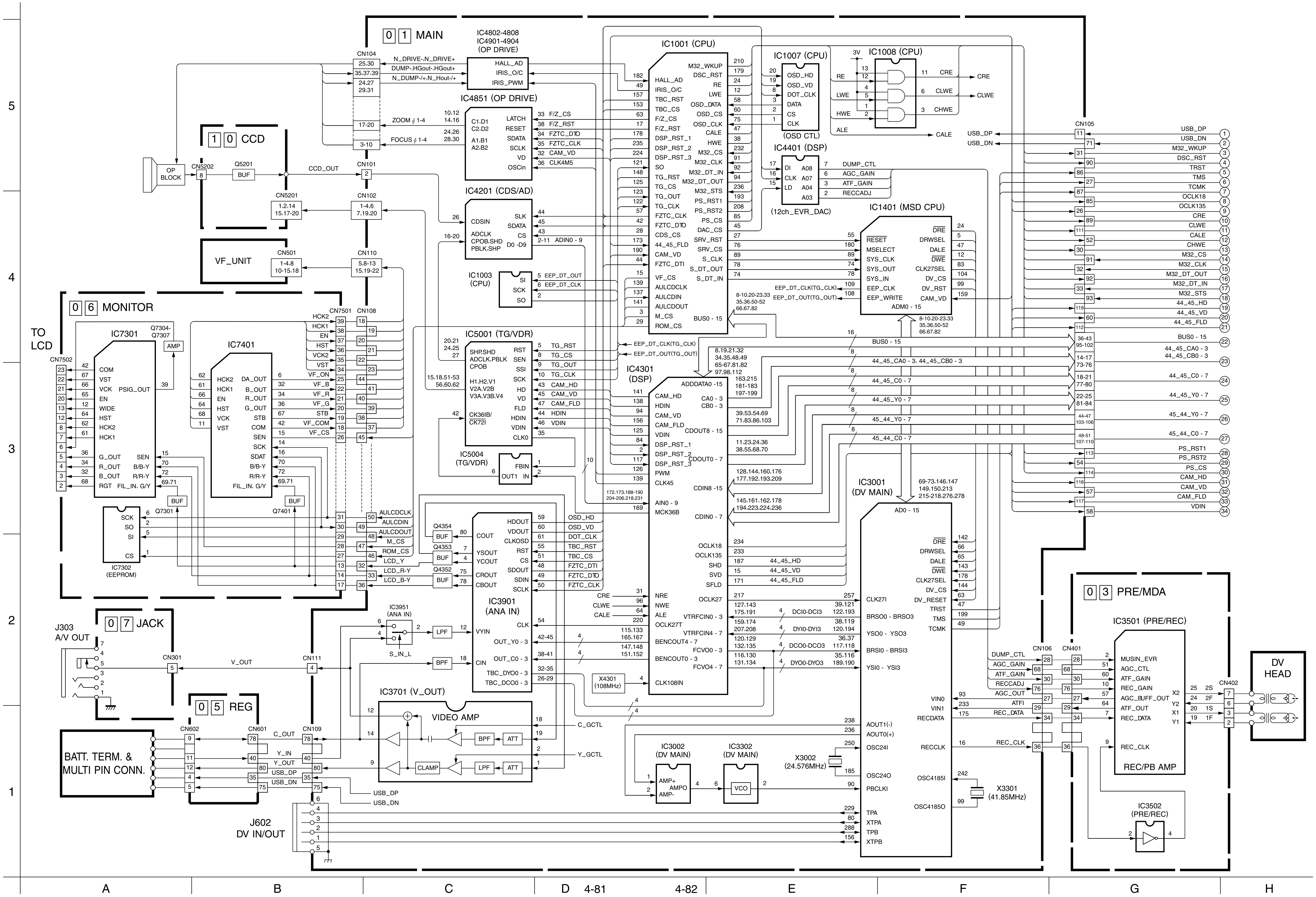


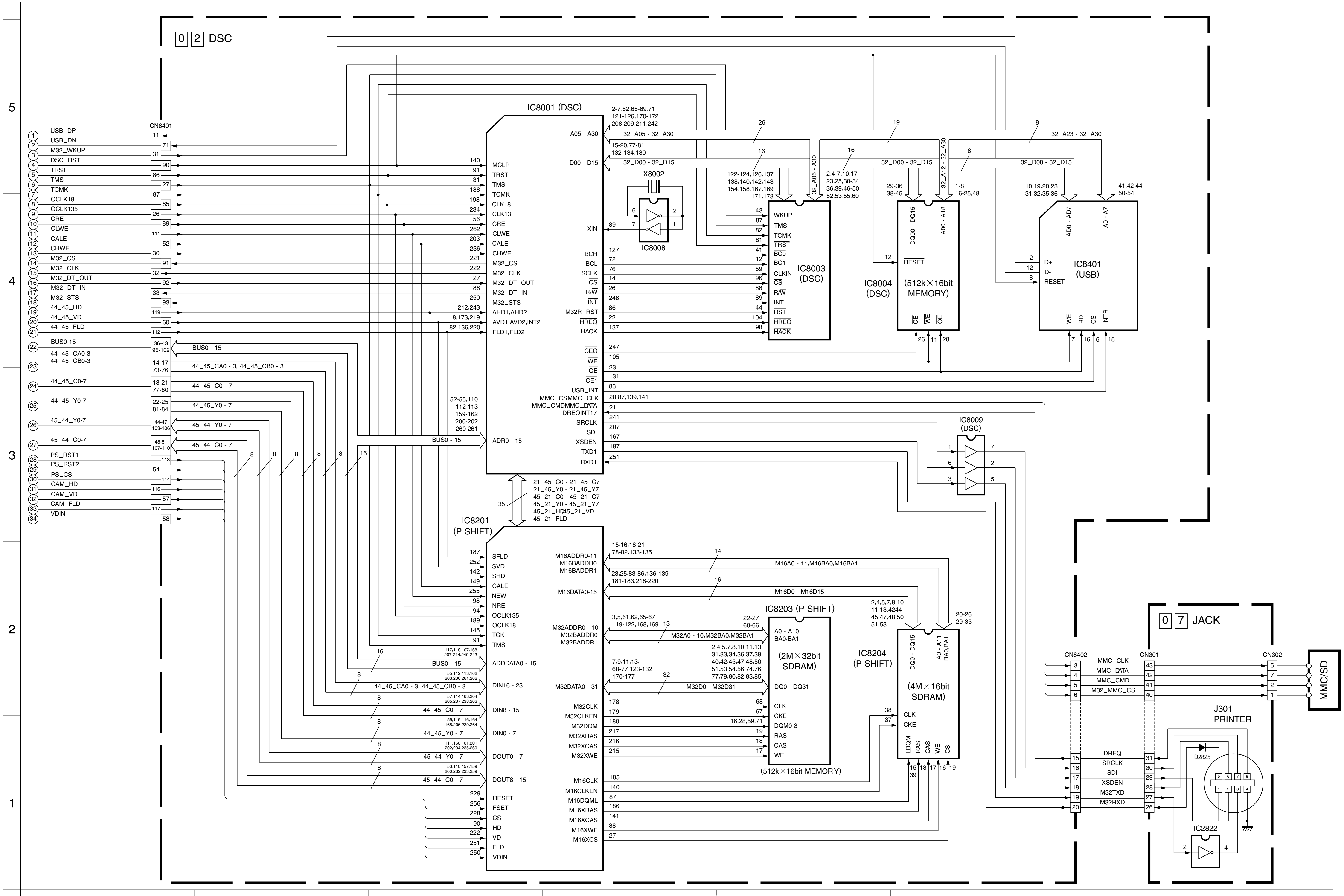
05 REG
TO BATTERY
(DET) TP2
(-) TP3
(+) TP1
F6101
F6102
L6102
L6101
F6103
L6111
IC6101
OUT1p
VCC3
VCC1
VCC2
OUT5
OUT3
OUT4
OUT2p
OUT6
CNT1
CNT3
Q6101 3V REG
Q6103 1.8V REG
Q6105 DRUM PWR
Q6106 CAP PWR
Q6107 4.8V REG
Q6108 SW REG
Q6110 12V REG
Q6111 15V REG
Q6114 CCD_7.5V REG
CN601
CN109
BATT_SW
SP UNREG
CHKUNREG
UNREG
M_UNREG
Z_UNREG
DSC_3V
A_REG3V
D_REG3V
REG_1.8V
DRUM_PWR
CAP_PWR
REG_4.8V
M_REG4.8
REG_12V
REG_15V
CCD_-7.5V
PWR_CTL
USBSENSE
USBDOWN
CN602
BATT. TERM. & MULTI PIN CONN.
SUB OPE UNIT
09 DECK OPE
CN2432
CN2431
3V
D_REG3V
CN108
LCD MODULE
06 MONITOR
CN7502
VVDD
VSS
HVDD
VSSG
Q7501
VCC
SW
IC7501
F7501
T7502
T7501
BL UNIT
IC7401 IC7502
IC7301 IC7302
Q7302 Q7304.Q7306
CN7501
VF_UNIT
4.8V
12V
LCD_VDD
CN501
CN110
01 MAIN
CDS/AD
IC4202
REG 3.1V
IC4201
3.1V
CCD_3.1V
OP DRIVE
IC4802-IC4805 IC4807.IC1408 IC4901-IC4904 Q4804
IC4806
IC4851
R4874
L4853
F_LED
Z_VCC
F_VCC
M_REG4.8
CPU
LIT_3V
IC1002
BATTCHK
AL_3V
IC1001
IC1004 IC1005 IC1006 IC1008
AL_3VSYS
IC1003 Q1002
IC1007
DSP
SR_3V
IC4401
DAC_2.9
REG_2.5V
IC4301
IC4302 REG 2.5V
2.5V
X4301
PS DRIV
M_REG4.8V
Q2001
PS_VCC
JLIP IF
IC1301
IC1302
REG CON
IC6001.Q6001-Q6005
BATT DC DET at PWR OFF
IC6003 REG 3V
Q6007
LITHIUM
AL_3V
LIT_3V
BATTCHK
TG/VDR
CCD_-7.5V
REG_15V
IC5002 REG 3.5V
3.5V
IC5001
IC5004
MSD CPU
IC1401 IC1403 Q1403
Q1402
IC1402
REEL_VCC
V OUT
IC3702 REG 3V
IC3701 Q3702
DV MAIN
IC3001
IC3002 IC3302
ANA IN
R3902
IC3901
IC3903
IC3951 Q3951 Q3953 Q3954
SHUTTER MDA
IC1201
CN102
CN104
CN103
CN106
CN105
CN112
CN111
CN113
10 CCD
CN5201
-7.5V
CCD_VL
CCD_VHH
Q5201
F_LEDZ_VCCF_VCCPS_VCC
03 PRE/MDA
CN401
IC1601
IC1701.IC1702 Q1601
IC3501
IC3502
REG_3V
A_REG_3V
D_REG_3V
CN405
MDA_2.9
CN403
CN404
CN406
P_TR_2.9
CAPSTAN MOTOR
LOADING MOTOR
DRUM MOTOR
SENSOR
02 DSC
CN8401
IC8001.IC8004 IC8008.IC8009.IC8201
IC8006 REG 2.5V
IC8007 REG 3.3V
IC8202 REG 3.3V
IC8003
IC8401 Q8401
IC8203 IC8204
IC8402
3.3V
04 AUDIO
CN201
SP_UNREG
Q2203
Q2901
Q2202
Q2605
IC2201
SPK+
SPK-
CN203
ZOOM_OPE. UNIT
CN204
07 JACK
CN301
R2862
IC2822
BT301
CN303
POWER LED
POWER OPE. UNIT
CN302
MMC CARD
CN304
SPEAKER
08 EJECT
CN2422
CN2421
FRONT FPC UNIT
R2411
CN2412
IR_VCC
IR UNIT
A
B
C
D
E
F
G
H
1
2
3
4
5

## 4.37 REGULATOR SYSTEM BLOCK DIAGRAM

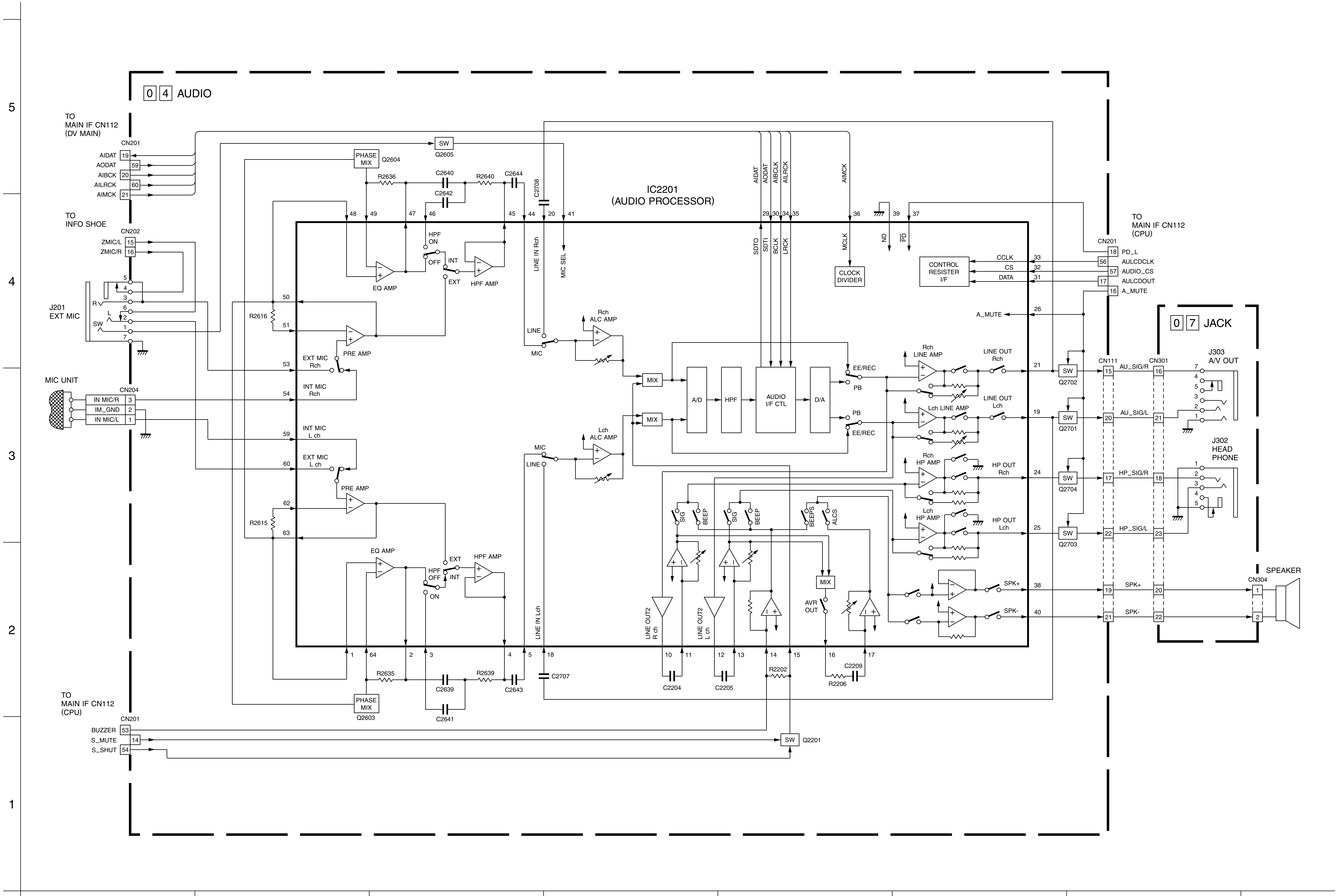

05 REG
01 MAIN
07 JACK
TO BATTERY
(+) TP1
(DET) TP2
(-) TP3
F6101
F6102
L6101
L6102
IC6101 (DC-DC CONV CONTROL)
VCC1
VCC2
VCC3
OUT1p
IN1-
OUT5
IN5-
OUT3
IN3-
IN3+
OUT4
IN4-
IN4+
OUT2p
IN2-
OUT6
IN6-
CNT1
CNT3
Q6101,L6103, R6113,R6114
3V SW. REG
Q6103,L6107, R6118,R6119
1.8V SW. REG
Q6105,L6108, R6122,R6123
DRUM POWER
Q6106,L6109, R6128,R6129
CAPSTAN POWER
Q6107,L6110, R6134-R6136
4.8V SW. REG
L6111
Q6108
SW. REG
F6103
C6143
D6106
Q6109
DIF AMP
Q6110
REG 12V
REG 15V
Q6111
C6149
D6108
Q6113
DIF AMP
Q6114
REG -7.5V
CN601
CN109
CHKUNREG
BATT_SW
SP_UNREG
UNREG
M_UNREG
Z_UNREG
DSC_3V
A_REG3V
D_REG3V
REG_1.8V
DRUM_PWR
DRUM_ERR
CAP_PWR
CAP_ERR
M_REG4.8
REG_4.8V
REG_12V
REG_15V
CCD_-7.5
PWR_CTL
R6003
IC6001
BATT DC DET at POWER OFF
R6002
R6005
R6006
Q6004 POWER OFF/ON
R6007
Q6005 POWER ON:H
L:ON
Q6003
Q6002
Q6001 L:ON
L6001
IC6003
3V REG
C6005
IC6004
RESET
Q6007
SW
R6012
IC1001 (CPU)
BATT_SW
PWR_CTL
RST
AL_3V
BATTCHK
D6002
LIT_3V
IC1002
VDD
R6017
D6001
Q6006
IC6002
3.3V REG
TO JIG CONNECTOR
CN107
CHG_STOP
CN107
LITHIUM
CN301
BT301
A
B
C
D
E
F
G
H
1
2
3
4
5

## 4.38 VIDEO SYSTEM BLOCK DIAGRAM


01 MAIN
10 CCD
VF_UNIT
06 MONITOR
07 JACK
05 REG
03 PRE/MDA
TO LCD
OP BLOCK
Q5201
BUF
CCD_OUT
CN104
CN5202
CN5201
CN101
CN102
CN110
CN501
CN7501
CN108
CN7502
CN111
CN301
CN109
CN601
CN602
CN105
CN106
CN401
CN402
IC4802-4808
IC4901-4904
(OP DRIVE)
IC4851 (OP DRIVE)
IC4201 (CDS/AD)
IC1003 (CPU)
IC5001 (TG/VDR)
IC5004 (TG/VDR)
IC1001 (CPU)
IC1007 (CPU)
(OSD CTL)
IC1008 (CPU)
IC4401 (DSP)
(12ch_EVR_DAC)
IC1401 (MSD CPU)
IC4301 (DSP)
IC3001 (DV MAIN)
IC3901 (ANA IN)
IC3951 (ANA IN)
IC3701 (V_OUT)
VIDEO AMP
IC3002 (DV MAIN)
IC3302 (DV MAIN)
X3002 (24.576MHz)
X3301 (41.85MHz)
X4301 (108MHz)
IC3501 (PRE/REC)
REC/PB AMP
IC3502 (PRE/REC)
DV HEAD
IC7301
IC7401
Q7304-Q7307
AMP
IC7302 (EEPROM)
Q7301
Q7401
Q4354
Q4353
Q4352
J303 A/V OUT
V_OUT
J602 DV IN/OUT
BATT. TERM. & MULTI PIN CONN.
C_OUT
Y_IN
Y_OUT
USB_DP
USB_DN
C_GCTL
Y_GCTL
LPF
BPF
ATT
CLAMP
VCO
S_IN_L
N_DRIVE-.N_DRIVE+
DUMP-.HGout-.HGout+
N_DUMP-/+.N_Hout-/+
ZOOM ϕ 1-4
FOCUS ϕ 1-4
BUS0 - 15
44_45_CA0 - 3, 44_45_CB0 - 3
44_45_C0 - 7
44_45_Y0 - 7
45_44_Y0 - 7
45_44_C0 - 7
EEP_DT_CLK(TG_CLK)
EEP_DT_OUT(TG_OUT)
DCI0-DCI3
DYI0-DYI3
DCO0-DCO3
DYO0-DYO3
DUMP_CTL
AGC_GAIN
ATF_GAIN
RECCADJ
AGC_OUT
ATFI
REC_DATA
REC_CLK
CRE
CLWE
CHWE
CALE
1 USB_DP
2 USB_DN
3 M32_WKUP
4 DSC_RST
5 TRST
6 TMS
7 TCMK
8 OCLK18
9 OCLK135
10 CRE
11 CLWE
12 CALE
13 CHWE
14 M32_CS
15 M32_CLK
16 M32_DT_OUT
17 M32_DT_IN
18 M32_STS
19 44_45_HD
20 44_45_VD
21 44_45_FLD
22 BUS0 - 15
23 44_45_CA0 - 3 / 44_45_CB0 - 3
24 44_45_C0 - 7
25 44_45_Y0 - 7
26 45_44_Y0 - 7
27 45_44_C0 - 7
28 PS_RST1
29 PS_RST2
30 PS_CS
31 CAM_HD
32 CAM_VD
33 CAM_FLD
34 VDIN
1 2 3 4 5
A B C D E F G H


02 DSC
07 JACK
IC8001 (DSC)
IC8201 (P SHIFT)
IC8203 (P SHIFT)
(2M×32bit SDRAM)
(512k×16bit MEMORY)
IC8204 (P SHIFT)
(4M×16bit SDRAM)
IC8003 (DSC)
IC8004 (DSC)
(512k×16bit MEMORY)
IC8401 (USB)
IC8009 (DSC)
IC8008
X8002
CN8401
CN8402
CN301
CN302
MMC/SD
J301 PRINTER
IC2822
D2825
USB_DP
USB_DN
M32_WKUP
DSC_RST
TRST
TMS
TCMK
OCLK18
OCLK135
CRE
CLWE
CALE
CHWE
M32_CS
M32_CLK
M32_DT_OUT
M32_DT_IN
M32_STS
44_45_HD
44_45_VD
44_45_FLD
BUS0-15
44_45_CA0-3
44_45_CB0-3
44_45_C0-7
44_45_Y0-7
45_44_Y0-7
45_44_C0-7
PS_RST1
PS_RST2
PS_CS
CAM_HD
CAM_VD
CAM_FLD
VDIN
MCLR
CLK18
CLK13
AHD1.AHD2
AVD1.AVD2.INT2
FLD1.FLD2
ADR0 - 15
A05 - A30
D00 - D15
XIN
BCH
BCL
SCLK
CS
R/W
INT
M32R_RST
HREQ
HACK
CEO
WE
OE
CE1
USB_INT
MMC_CSMMC_CLK
MMC_CMDMMC_DATA
DREQINT17
SRCLK
SDI
XSDEN
TXD1
RXD1
32_A05 - 32_A30
32_D00 - 32_D15
32_D08 - 32_D15
32_A23 - 32_A30
32_A12 - 32_A30
WKUP
BC0
BC1
CLKIN
RST
RESET
DQ00 - DQ15
A00 - A18
AD0 - AD7
A0 - A7
D+
D-
RD
INTR
SFLD
SVD
SHD
NEW
NRE
OCLK135
TCK
ADDDATA0 - 15
DIN16 - 23
DIN8 - 15
DIN0 - 7
DOUT0 - 7
DOUT8 - 15
FSET
HD
VD
FLD
M16ADDR0-11
M16BADDR0
M16BADDR1
M16DATA0-15
M32ADDR0 - 10
M32BADDR0
M32BADDR1
M32DATA0 - 31
M32CLK
M32CLKEN
M32DQM
M32XRAS
M32XCAS
M32XWE
M16CLK
M16CLKEN
M16DQML
M16XRAS
M16XCAS
M16XWE
M16XCS
M16A0 - 11.M16BA0.M16BA1
M16D0 - M16D15
M32A0 - 10.M32BA0.M32BA1
M32D0 - M32D31
A0 - A10
BA0.BA1
DQ0 - DQ31
CKE
DQM0-3
RAS
CAS
A0 - A11
LDQM
21_45_C0 - 21_45_C7
21_45_Y0 - 21_45_Y7
45_21_C0 - 45_21_C7
45_21_Y0 - 45_21_Y7
45_21_HD45_21_VD
45_21_FLD
MMC_CLK
MMC_DATA
MMC_CMD
M32_MMC_CS
DREQ
M32TXD
M32RXD
A
B
C
D
E
F
G
H
1
2
3
4
5

## 4.39 AUDIO SYSTEM BLOCK DIAGRAM



0 4 AUDIO
0 7 JACK
TO MAIN IF CN112 (DV MAIN)
CN201
AIDAT 19
AODAT 59
AIBCK 20
AILRCK 60
AIMCK 21
TO INFO SHOE
CN202
ZMIC/L 15
ZMIC/R 16
J201 EXT MIC
R
L
SW
MIC UNIT
CN204
IN MIC/R 3
IM_GND 2
IN MIC/L 1
TO MAIN IF CN112 (CPU)
CN201
BUZZER 53
S_MUTE 14
S_SHUT 54
SW Q2201
SW Q2605
PHASE MIX Q2604
PHASE MIX Q2603
R2636
C2640
C2642
R2640
C2644
C2708
R2635
C2639
C2641
R2639
C2643
C2707
R2616
R2615
IC2201 (AUDIO PROCESSOR)
EQ AMP
HPF ON
OFF
INT
EXT
HPF AMP
PRE AMP
EXT MIC Rch
INT MIC Rch
INT MIC L ch
EXT MIC L ch
LINE IN Rch
LINE IN Lch
MIC SEL
LINE
MIC
Rch ALC AMP
Lch ALC AMP
MIX
A/D
HPF
AUDIO I/F CTL
D/A
AIDAT
AODAT
AIBCLK
AILRCK
AIMCK
SDTO
SDTI
BCLK
LRCK
MCLK
ND
PD
CLOCK DIVIDER
CONTROL RESISTER I/F
CCLK
CS
DATA
A_MUTE
EE/REC
PB
Rch LINE AMP
Lch LINE AMP
LINE OUT Rch
LINE OUT Lch
Rch HP AMP
Lch HP AMP
HP OUT Rch
HP OUT Lch
SIG
BEEP
BEEPS
ALCS
AVR OUT
LINE OUT2 R ch
LINE OUT2 L ch
SPK+
SPK-
C2204
C2205
R2202
C2209
R2206
48 49 47 46 45 44 20 41 29 30 34 35 36 39 37
50 51 53 54 59 60 62 63
1 64 2 3 4 5 18 10 11 12 13 14 15 16 17
33 32 31 26 21 19 24 25 38 40
TO MAIN IF CN112 (CPU)
CN201
18 PD_L
56 AULCDCLK
57 AUDIO_CS
17 AULCDOUT
16 A_MUTE
SW Q2702
SW Q2701
SW Q2704
SW Q2703
CN111
CN301
15 AU_SIG/R 16
20 AU_SIG/L 21
17 HP_SIG/R 18
22 HP_SIG/L 23
19 SPK+ 20
21 SPK- 22
J303 A/V OUT
J302 HEAD PHONE
SPEAKER
CN304
5
4
3
2
1
A
B
C
D
E
F
G
H

(S)-M14D6L